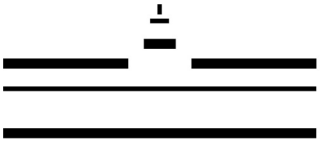
Europlanet
European Planetology Network

EPSC 2008

European Planetary Science Congress

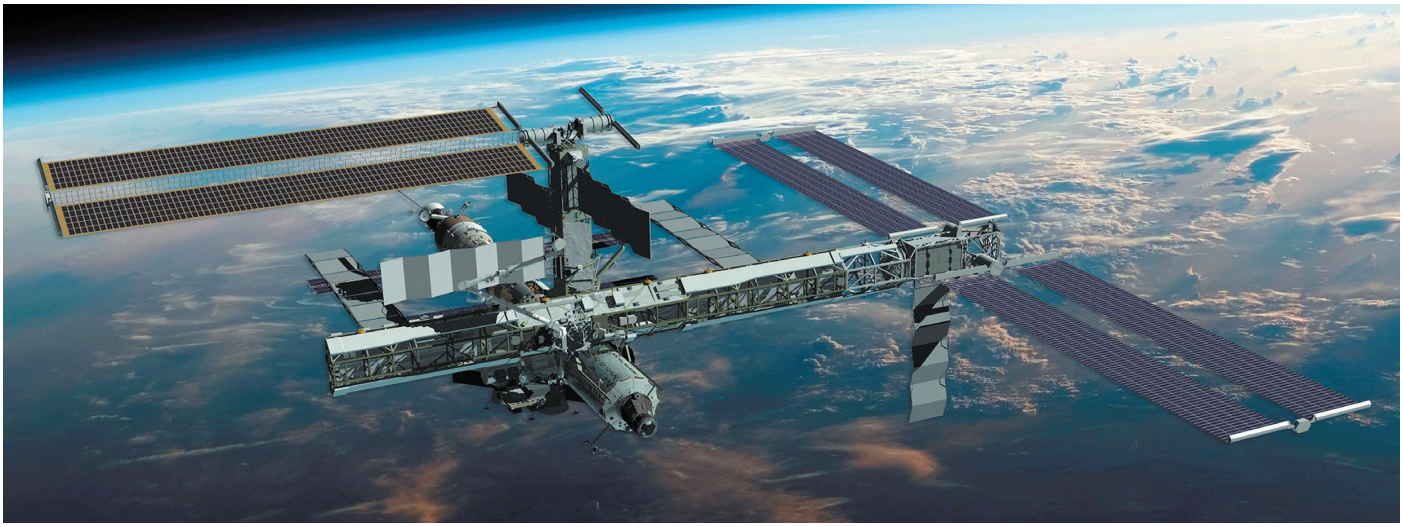
Münster, Germany, 21 – 26 September 2008

Programme Book



Westfälische
Wilhelms-Universität
Münster

Copernicus Meetings
The Professional Congress Organizer



> European Planetary Science Congress 2008

21.- 26. September, Münster, Germany

Öffentlicher Vortrag von Astronaut Thomas Reiter (DLR/ESA)

24. September, 19:00 Uhr, Aula der WWU, Schloßplatz 2

Anschließend Podiumsdiskussion:

„Wohin geht die Reise?“ - Die nächsten Schritte bei der Erforschung unseres Sonnensystems

Teilnehmer der Podiumsdiskussion:
> Prof. Dr. Gerhard Schwehm (ESA)
> Prof. Dr. Tilman Spohn (DLR)
> Thomas Reiter (DLR/ESA)
> Philipp Stratmann (Schüler)

Moderation:
Prof. Dr. Harald Hiesinger
(Institut für Planetologie, WWU Münster)

wissen .leben
WWU Münster

IfP

EPSC 2008

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WELCOME

Dear Colleague,

Welcome to the Third European Planetary Science Congress. It takes place under the auspices of EuroPlaNet and the European Geosciences Union.

This year, we aim to further improve on the first two meetings that took place in Berlin and Potsdam. We have received more than 550 abstracts, more than ever. With the growing number of participants, we hope to establish this meeting as the European counterpart of the Lunar and Planetary Science Conference, which takes place in Houston every spring. However, our growing success is not all about the number of participants. For the first time, we have introduced a new two-page abstract format, which gives authors more space to report their exciting research and simultaneously improves the quality of the contributions themselves. We have put together an interesting program with numerous highlights that cover all major research fields in planetology. The finacial support by EuroPlaNet allows for a very low registration fee. We hope this program will stimulate the exchange of ideas with your colleagues.

Münster is an attractive city with numerous interesting places to explore and shop! We encourage you to take this chance to spend some time visiting the attractions the city has to offer. Check out the Prinzipalmarkt and the close-by cathedral (St. Paul's) with its 468 year old astronomical clock or visit the Picasso Museum. Take a stroll along the promenade, blend in with the Münsteraner locals by renting a bicycle, or visit the farmers market at the Domplatz on Wednesday afternoon. There are many interesting and fun things to do in Münster! We hope that you enjoy your visit here.

We thank you for participating in and supporting this third European Planetary Science Congress. We wish you a successful and enjoyable week, and look forward to seeing you at future European Planetary Science Congresses.

Harald Hiesinger, Michel Blanc,
Ralf Srama, and Manuel Grande

EUROPLANET: EUROPEAN PLANETOLOGY NETWORK

Funded by the European Commission under the FP6, EuroPlaNet's goal is to provide support to the European Planetology Community for maximizing the science produced by planetary missions with European involvement.

The main objective of EuroPlaNet is to achieve a long term integration of Planetary Sciences in Europe through the networking of the European research groups involved in this field. EuroPlaNet will develop and coordinate synergies between space observations, Earth-based observations, laboratory research, numerical simulations and databases development through 6 networking activities (N2–N6) in addition to the overall project Management (N1).

Activities	Coordinators	Lead Institutes
N1: Managment	M. Blanc, M. Dougherty, T. Duprat, I. Müller-Wodarg, O. Witasse, G. Sciortino	CNRS, France Imperial College London, UK CESR, France ESA-ESTEC, The Netherlands ASI, Italy
N2: Discipline Working Groups	N. Krupp, A. M. Harri,	Max Planck Institute, Germany Finnish Meteorological Insitute, Finland
N3: Coordination of Earth Based and Space Observations	H. O. Rucker, S. Miller,	Austrian Academy of Sciences, Space Research Institute Graz, Austria University College London, UK
N4: Outreach Strategy	J. P. Lebreton,	ESA-ESTEC, The Netherlands
N5: Personnel Exchange	O. Dutuit, K. Szego,	Université Paris Sud, France KFKI-Research Institute for Particle and Nuclear Physics, Hungary
N6: Meetings, Conferences	R. Srama, M. Grande,	Max Planck Institute, Germany CCLRC, UK
N7: Integrated and Distributed Information Services (IDIS)	G. Chanteur, E. Flamini,	CNRS, France ASI, Italy

N1: Overall Management of EuroPlaNet
Michel Blanc: Project Leader
Michèle Dougerthy and Ingo Müller-Wodarg: Deputy Coordinators for Science
Giacomo Sciortino: Deputy for Management
Thierry Duprat: Project Manager
Olivier Witasse: Executive Secretary

N2: Discipline Working Groups
To establish "Discipline Working Groups in the different scientific areas to cover all major fields of Planetary Sciences and to anticipate future research areas in planetology.
Norbert Krupp and Ari-Matti Harri: Coordinators
Bjoern Grieger: Assistant Coordinator

N3: Coordination of Earth-based and Space Observations
To develop synergies between in-situ exploration of the Solar System, ground and Earth-orbit observations. To establish a global observation strategy for the use of the ground-based telescopes and to exchange and jointly analyse the data obtained.
Helmut Rucker, Steve Miller: Coordinators
Maxim Khodachenko: Assistant Coordinator

N4: Outreach Strategy
To develop, through specific outreach activities, including a multilingual approach, science communication on planetary observation and exploration programmes for the benefit of European citizens, especially children and young people.
Jean-Pierre Lebreton: Coordinator

N5: Personnel Exchanges
To support joint research programmes between the participants through short-term exchanges of personnel and to foster long-term co-operations.
Odile Dutuit and Karoly Szego: Coordinators
Pascal Pernot: Assistant Coordinator

N6: Meetings
To organise EuroPlaNet internal meetings and to initiate a major Planetary Sciences meeting in Europe (EuroPlaNet: European Planetary Science Congress) in collaboration with planetary and space science society.
Ralf Srama and Manuel Grande: Coordinators

N7: Integrated and Distributed Information Service (IDIS)
To coordinate studies for the implementation of an Integrated and Distributed Information Service (IDIS) and its further evolution into a European Virtual Planetary Observatory.
Gérard Chanteur and Enrico Flamini: Coordinators
Maria Teresa Capria: Deputy Coordinator

The European Planetology Network (EuroPlaNet) is funded by the European Commission under the 6th Framework Programme (EC contract no. 001637-RICA) for a period of four years, starting on 1 January 2005.

EuroPlaNet membership consists of scientists working in 60 European institutes and space agencies representing 17 European nationalities.

More detailed information can be found on:
http://europlanet.cesr.fr/

GENERAL INFORMATION

Location and Conference Address

The European Planetary Science Congress 2008 is held at the Westfälische Wilhelms Universität in Münster, Germany, from 21–26 September 2008. The congress is open to scientists of all nations.

Westfälische Wilhelms Universität

Schloßplatz 2
48149 Münster
Germany
Tel.: +49-251-83-0
Fax: +49-251-83-32090
www.uni-muenster.de

Rules of Conduct

- Smoking is prohibited in the entire congress centre except in the areas designated for smokers.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- Please switch off any mobile phones in the lecture rooms.
- It is prohibited to take photos of any scientific material at the conference.

Official Language

The official language of the European Planetary Science Congress 2008 is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Insurances

The organizers cannot accept liability for personal accident, loss or damage to private property, which may be incurred as a result of the participation in the European Planetary Science Congress 2008. Participants are, therefore, advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Services

Internet

W-LAN is available free of charge throughout the conference venue.

Message Board

A message board is located close to the registration & information desk.

Tourist Information

Münster Marketing
Tel: +49-251-492-2726
Fax: +49-251-492-7759
tourismus@stadt-muenster.de
www.tourismus.muenster.de

Registration & Information Desk

The registration & information desk is located in the Main Entrance Hall.

Opening Hours

Sunday, 21 September 2008
15:45–19:00

Monday–Thursday, 22–25 September 2008
08:00–18:00

Friday, 26 September 2008
08:00–12:00

Press Office

The press office is located on the 2nd floor in the “Besprechungszimmer" (Room 101).

Press Officer

Anita Heward
EPSC2008
EuroPlaNet – European Planetology Network
Tel: +44-7756-034243
anitaheward@btinternet.com
www.europlanet-eu.org

Opening Hours

Monday–Thursday, 22–25 September 2008
09:00–17:00

Friday, 26 September 2008
09:00–15:00

Scientific Committee

Michel Blanc
Athena Coustenis
Manuel Grande
Harald Hiesinger
Helmut Lammer
Jean-Pierre Lebreton
Ingo Mueller-Wodarg
Heike Rauer
Helmut O. Rucker
Ralf Srama
Ruth Ziethe

Local Organizing Committee

Harald Hiesinger
Kerstin Klemm
Kai Multhaup
Carolyn van der Bogert
Dennis Reis

Oral Sessions

Monday–Friday, 22–26 September 2008

Timeblock 1	09:00–10:30
Coffee Break	10:30–11:00
Timeblock 2	11:00–12:30
Lunch	12:30–14:00
Timeblock 3	14:00–15:30
Coffee Break	15:30–15:45
Timeblock 4	15:45–17:15
Timeblock 5	17:30–19:00

Poster Display Times

First Display Time
Monday, 08:30 – Wednesday, 13:00

Author in Attendance
Monday, 17:30–19:00

Authors are kindly requested to take down their posters on Wednesday, 13:00 at the very latest.

Second Display Time
Wednesday, 14:00 – Friday, 19:00

Author in Attendance
Thursday, 17:30–19:00

Authors are kindly requested to put up their posters on Wednesday, 14:00 at the very earliest.

Posters are located in the tent. Sticky tape / pins are available at the registration & information desk and in the tent.

Breaks & Lunch

Coffee Breaks

Free coffee/tea will be served during the Coffee Breaks. The coffee station is in the Main Entrance Hall.

Lunch

From Monday through Friday, the Schlossgarten Restaurant will offer a special lunch meal at reduced prices. If you would like to have lunch at the Schlossgarten Restaurant, you are kindly asked to sign up at the registration desk until 10:00 a.m. You may also take a short walk to the Münster downtown area, where you can find numerous restaurants offering a wide variety of lunch options. Enjoy your lunch!

Outreach Talk

For details please see the inside front cover of this programme book.

Business Meetings

Europlanet General Assembly
Location: Aula
Date: Monday, 22 September, 9:00–10:30

Europlanet Coordinator & Science Advisory Board Meeting
Location: Room S6
Date: Thursday, 25 September, 12:30–14:00

EPSC Programme Committee Meeting
Location: Room S6
Date: Friday, 26 September, 15:45–17:15

Splinter Meetings & Workshops

SM1 – IDIS: recent developments and perspectives
Location: Room S6
Date: Friday, 26 September, 14:00–15:30

SM2 – EUROPLANET N3: Coordination of Earth-based and space observations
Location: Room S6
Date: Thursday, 25 September, 14:00–15:30

SM3 – European Strategy for Space Exploration
Location: Room S6
Date: Tuesday, 23 September, 17:30–19:00

SM4 – N4 Europlanet outreach activity
Location: Room S6
Date: Friday, 26 September, 11:00–12:30

SM5 – The Cassini August 11 Enceladus flyby
Location: Room S6
Date: Thursday, 25 September, 15:45–17:15

SM6 – European initiative for the analysis of ET material returned by space missions
Location: Room S6
Date: Tuesday, 23 September, 14:00–15:30

The times and locations are preliminary and might shift, therefore you are kindly requested to check the message board for schedule changes.

Special Events

Icebreaker Reception
Location: Main Entrance Hall
Date: Sunday, 21 September 2008, 19:00

Welcome Opening
Location: Aula
Date, Monday, 22 September 2008, 09:00

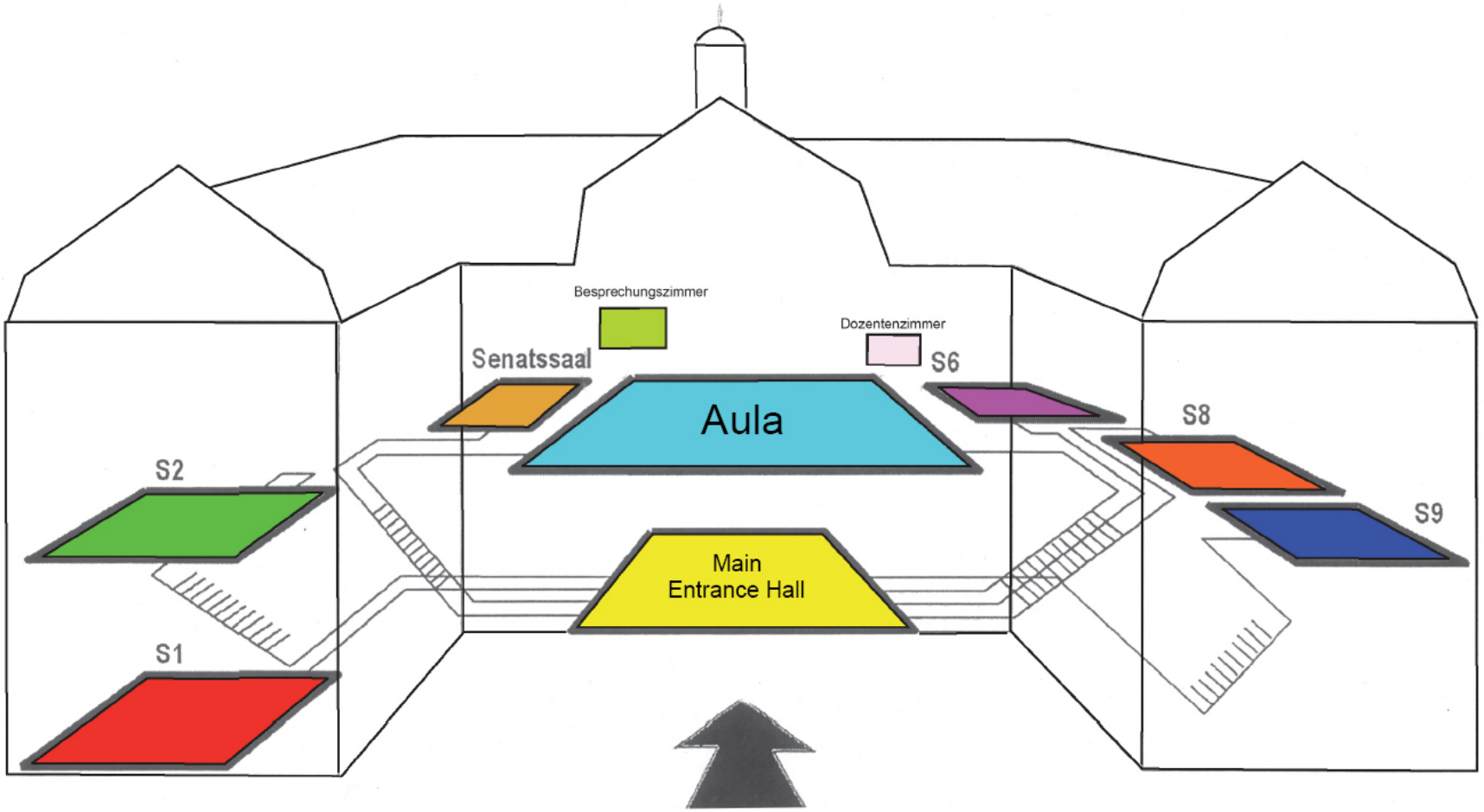
Get Together & Poster Sessions
Location: Poster Area, Tent
Date: Monday, 22 September and Thursday, 25 September, 17:30–19:00

Dinner Banquet
Location: Tent
Date: Tuesday, 23 September, 19:00–21:00

Registration & Abstract Management

Copernicus GmbH
Max-Planck-Str. 13
37191 Katlenburg-Lindau
Germany
Tel: +49-5556-99555-0
Fax: +49-5556-99555-70
meetings@copernicus.org
www.copernicus.org

Location Plan of Lecture Rooms



EPSC2008
European Planetary Science Congress 2008
Session Overview

Day	Timeblock	Aula	S1	S6	S8	S9
MO	09:00–10:30	Opening and General Assembly				
	11:00–12:30	TP5	GA2		ON3/ON5/ON9	
	14:00–15:30	MG3	GA2		ON3/ON5/ON9	TP10
	15:45–17:15	MT7	GA2		ON3/ON5/ON9	TP4
	17:30–19:00	Poster Session 1				
TU	09:00–10:30	TP2	MG1		SB5	
	11:00–12:30	TP2	MG1		SB5	
	14:00–15:30	TP2	MG2	SM6	SB5	
	15:45–17:15	TP2	MG2	SB8	ON4	
	17:30–19:00	MT10	MG2	SM3	ON4	
WE	09:00–10:30	TP7	SB4	OA1	MT9	
	11:00–12:30	TP7	SB4	OA1	MT9	
	14:00–15:30	TP7	MT6	OA2 / OA3	MT2	
	15:45–17:15	TP7	MT6	OA3	MT5	
	17:30–19:00		MT6	SB3		
TH	09:00–10:30	GA1	SB6		TP1	LF1
	11:00–12:30	GA1	SB6		TP1	LF2
	14:00–15:30	GA1	SB6	SM2	TP6	LF3
	15:45–17:15	GA1		SM5	TP6	LF4
	17:30–19:00	Poster Session 2				
FR	09:00–10:30	TP3	SB2		ON6	
	11:00–12:30	TP3	MT8	SM4	ON8	
	14:00–15:30	MT1	TP8	SM1	ON1	
	15:45–17:15	MT1	SB7		ON2	

Poster Session 1
MT3, MT7
TP2, TP4, TP5, TP10
GA2
MG1, MG2, MG3
SB5, SB8
ON3/ON5/ON9, ON4

Poster Session 2
MT1, MT2, MT5, MT6, MT8, MT9
TP1, TP3, TP6, TP7, TP8
GA1
SB2, SB4, SB6, SB7
ON1, ON2, ON6, ON8
LF1, LF2, LF3, LF4
OA2, OA3

SESSION PROGRAMME

MONDAY

Missions and Techniques

MT3 Future Planetary Missions – Posters

Convener: Lebreton, J.
Co-Convener(s): Grande, M.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0001; EPSC2008-A-00037
Grott, M.; Wieczorek, M.A.; Richter, L.; Spohn, T.
Planetary Heat Flow Measurements and Thermal Disturbances Caused by Lander Shadowing

P0002; EPSC2008-A-00051
Hargitai, H.
A New Calendar System for Future Human Missions on Mars and for Mars Climate Diagrams

P0003; EPSC2008-A-00146
Knapmeyer, M.; Weber, R.C.; Lognonne, P.; ExoMars Team, SEIS
Seismic Phase Amplitude decay and Implications for Event detection Rates on Mars

P0004; EPSC2008-A-00182
Reh, K; Beauchamp, P; Elliott, J
Concept for A Mission to Titan, Saturn System and Enceladus

P0005; EPSC2008-A-00193
Lellouch, E.; **Vinatier, S.**; Moreno, R.; Allen, M.; Gulkis, S.; Hartogh, P.; Mehdi, I.; Maestrini, A.; Krieg, J.-M.
A submillimeter sounder for the Titan Saturn System Mission (TSSM)

P0006; EPSC2008-A-00198
Irwin, P.G.J; Ellison, B.N.; de Kok, R.; Teanby, N.A.; Calcutt, S.B.; Alderman, B.
Oxford RAL Terahertz-Infrared Sensor - ORTIS

P0007; EPSC2008-A-00202
Spilker, T.; Strange, N.
Science implications of delivery techniques and timing for in situ vehicles at Titan

P0008; EPSC2008-A-00322
Sanmartin, J.R.; Charro, M.; Lorenzini, E.C.; Garrett, H.B.; Bombardelli, C.; Evans, R.W.
Electrodynamic tether mission to a Low Jovian Orbit

P0009; EPSC2008-A-00349
Multhaup, K.; Hiesinger, H.; Helbert, J.; the MERTIS team
MERTIS - a radiometer and thermal infrared spectrometer aboard BepiColombo

P0010; EPSC2008-A-00361
Harri, A.-M; Schmidt, W.; Pichkhadze, K.; Linkin, V.; Vazquez, L.; Uspensky, M.; Polkko, J.; Genzer, M.; Lipatov, A.; Guerrero, H.
MMPM - Mars MetNet Precursor Mission

P0011; EPSC2008-A-00395
Carpenter, J.D.; Koschny, D.; Crawford, I.; Falcke, H.; Kempf, S.; Lognonne, P.; Ricci, C.; Houdou, B.; Pradier, A.
MoonNEXT: A European mission to the Moon

P0012; EPSC2008-A-00403
Poncy, J.; Grasset, O.; Martinot, V.; Tobie, G.
Preliminary assessment of a Ceres polar lander mission

P0013; EPSC2008-A-00408
Castillo, M.; Martin, P.
Mars global mapping of abundance and size-frequency distribution of rocks

P0014; EPSC2008-A-00435
Schroeder, S.E.; Gutierrez-Marques, P.; Keller, H.U.; Maue, T.; Sierks, H.; The FC team
In-flight Calibration of the Dawn Framing Camera

P0015; EPSC2008-A-00524
Palomba, E.; Zinzi, A.; Longobardo, A.; Bellucci, G.; Zampetti, E.; Pantalei, S.; Bearzotti, A.; Macagnano, A.
Microthermogravimetric analysis as a useful tool for in-situ planetary space missions

P0016; EPSC2008-A-00526
Gowen, R.; The UK Penetrator Consortium
Enabling kinetic micro-penetrator technology for solar system research

P0017; EPSC2008-A-00442
Maue, T; Gutierrez-Marques, P.; Keller, H.U.; Sierks, H.; Schröder, S.E.; The FC Team
Mars Flyby with the Dawn Framing Camera

P0018; EPSC2008-A-00535
Uhlmann, S.; Grott, M.
Heat flow perturbations from isolated rock bodies in the Martian regolith

P0019; cancelled

P0020; EPSC2008-A-00567
Griffes, J.L.; Grant, J.; Grotzinger, J.; Golombek, M.; McEwen, A.
Analysis of potential Mars science laboratory landing sites using HiRISE

P0021; EPSC2008-A-00584
Srama, R.; Schlemmer, V.; Kempf, S.; Postberg, F.; Moragas-Klostermeyer, G.; Matt, G.; Grün, E.
A small dust telescope for the measurement of interplanetary dust

P0022; EPSC2008-A-00610
Green, S.; Barucci, A.; Yoshikawa, M.; Koschny, D.; Böhnhardt, H.; Brucato, J.; Coradini, M.; Dotto, E.; Franchi, I.; Josset, J.-L.; Marco Polo team
A joint JAXA-ESA mission to return a sample from an asteroid – Marco Polo

P0023; EPSC2008-A-00608
Pappalardo, R. T.; Blanc, M.; Clark, K.; Greeley, R.; Hendrix, A. R.; Lebreton, J.-P.
The EJSM Jupiter-Europa Orbiter: Science Objectives

P0024; EPSC2008-A-00609
Pappalardo, R. T.; Clark, K.; Greeley, R.; Hendrix, A. R.; Tan-Wang, G.; Lock, R.; Van Houten, T.; Ludwinski, J.; Petropoulis, A.; Jun, I.; EJSM Jupiter Europa Orbiter team
The EJSM Jupiter-Europa Orbiter: Mission Overview

P0025; EPSC2008-A-00621
Lunine, J. I.; Lebreton, J. P.; Coustenis, A.; Matson, D.; Reh, K.; Beauchamp, P.; Erd, C.; the TSSM Joint Science Definition Team
TSSM: An International Mission to Titan and the Saturn System

P0026; EPSC2008-A-00622
Fujimoto, M.
The EJSM Jovian Magnetospheric Orbiter

P0027; EPSC2008-A-00623
Blanc, M.; Lebreton, J. P.; Stankov, A.; Greeley, R.; Pappalardo, R. T.; Fujimoto, M.; the Joint Jupiter Science Definition Team
The EJSM Jupiter-Ganymede Orbiter

P0028; EPSC2008-A-00624
Niebur, C.; Dudzinski, L.; Coradini, M.; Lebreton, J. P.; Cutts, J. A.
Outer Planets Flagship Mission

P0029; EPSC2008-A-00625
Coustenis, A.; Lunine, J. I.; Lebreton, J. P.; Matson, D.; Reh, K.; Beauchamp, P.; Erd, C.; the TSSM Joint Science Definition Team
TSSM: The in situ exploration of Titan

P0030; EPSC2008-A-00626
Pappalardo, R. T.; Clark, K.; Greeley, R.; Hendrix, A. R.; Boldt, J.; Tan-Wang, G.; Lock, R.; Van Houten, T.
The EJSM Jupiter Europa Orbiter: Planning Payload

END OF POSTER PROGRAMME MT3

MT7 Nanosat and nanoprobe concepts for future Planetary exploration

Convener: Lebreton, J.
Co-Convener(s): Carr, C.
Room: Aula
Chairperson: N.N.

15:45–16:00; EPSC2008-A-00536
Aguado-Agelet, F.; Martinez, C.; Sarmiento, E.; González, G.
Reconfigurable communications system for cubesats

16:00–16:15; EPSC2008-A-00372
Lebleu, D.
Concept overwiew of Titan probes following Cassini/Huygens

16:15–16:30; EPSC2008-A-00466
Honfi Camilo, L; Buutfeld, B; Kuystermans, P; van der Pols, R; Maas, A; Gill, E
The Design of Two Nano-Rovers for Lunar Surface Exploration in the Context of the Google Lunar X Prize

16:30–16:45; EPSC2008-A-00578
Hapgood, M.; **Eckersley, S.**; Lundin, R.; Kluge, M.
The ESA Nanosatellite Beacons for Space Weather Monitoring Study

16:45–17:00; EPSC2008-A-00616
Moen, J.; Pedersen, A.; Bekkeng, T. A.; Lindem, T.; Jacobsen, K. S.
Multi-Needle Langmuir Probe concept for high-resolution plasma density measurements: A potential novel plasma sensor for Cubesats

17:00–17:15; EPSC2008-A-00617
Lorenz, R.
Titan Bumblebee: a 1kg Lander-launched UAV Concept

17:15–17:30; EPSC2008-A-00618
Lorenz, R.
Miniaturized Mars Probes: The DS-2 Experience

17:30 END OF ORAL PROGRAMME MT7

MT7 Nanosat and nanoprobe concepts for future Planetary exploration – Posters

Convener: Lebreton, J.
Co-Convener(s): Carr, C.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0031; EPSC2008-A-00477
Kruselburger, A.; Chacin, M.; ISU SSP06 TP Micro/ Nano members
Micro Probe for Titan Atmospheric Survey

P0032; EPSC2008-A-00620
Duquesnay, P.; Coustenis, A.; Lebreton, J.-P.; Tavel, J.
A contrarotative aircraft lifting concept for a future Titan mission

P0032a; EPSC2008-A-00619
Charnoz, S.; Burns, J.; Christou, A.; Coustenis, A.; Colwell, J.; Cuzzi, J.; Evans, M.; Ferrari, C.; Guillot, T.; Hedman, M.; THE LORA team
LORA, the first in-situ mission into an astrophysical disk: Saturn's rings

END OF POSTER PROGRAMME MT7

Terrestrial Planets

TP2 New Science from Mercury – Posters

Convener: Hiesinger, H.
Co-Convener(s): Head, J.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: ZIETHE, R.

P0033; EPSC2008-A-00220
Koch, C.; Christensen, U.R.; Kallenbach, R.
Extraction of the tidal amplitude from synthetic topography data of the BepiColombo laser altimeter in the polar regions of Mercury

P0034; EPSC2008-A-00364
Luedicke, F.L.; Oberst, J.O.; Hußmann, H.H.
New Orbit Simulations for BepiColombo Using Higher-Order Mercury Gravity Field Coefficients, Solar Gravity and Radiation Pressure

P0035; EPSC2008-A-00539
Wang, Y.-C.; Ip, W.-H.; Motschmann, U.
The sodium exosphere and extended coma of Mercury

P0036; EPSC2008-A-00311
Potter, A.; Killen, R.; Mouawad, N.
Ground-based Observations of sodium at Mercury during the first MESSENGER flyby

P0037; EPSC2008-A-00190
Wedlund, M; Chassefière, E; Maria, J-L; Rouanet, N; Quémerais, E; Leblanc, F; PHEBUS Team
PHEBUS: Probing of Hermean Exosphere By Ultraviolet Spectroscopy

P0038; EPSC2008-A-00032
Kochemasov, G.
The first Messenger data supporting main theses of the wave planetology

END OF POSTER PROGRAMME TP2
(oral programme on Tuesday)

TP4 Impact Cratering as a planetary process

Convener: Artemieva, N.
Room: S9
Chairperson: ARTEMIEVA, N.

15:45–16:15; EPSC2008-A-00304
Ivanov, B.
Impact cratering as a planetary process in 2008 (solicited)

16:15–16:30; EPSC2008-A-00465
Suzuki, A.; Baratoux, D.; Kurita, K.
A possible formation process of outer lobes of Double Layered Ejecta craters on Mars

16:30–16:45; EPSC2008-A-00545
van der Bogert, C. H.; Schultz, P. H.; Spray, J. G.
Experimental high strain-rate deformation products of carbonate-silicate rocks: Comparison with terrestrial impact materials

16:45–17:00; EPSC2008-A-00317
Artemieva, N.
Ejecta emplacement: from distal to proximal

17:00 END OF ORAL PROGRAMME TP4

TP4 Impact Cratering as a planetary process – Posters

Convener: Artemieva, N.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: ARTEMIEVA, N.

P0039; EPSC2008-A-00010
Nemtchinov, I.V.; Shuvalov, V.V.; Artemieva, N.A.; Kosarev, I.B.; **Popel, S.I.**
Physical aspects of formation of transient atmospheres of cosmic bodies by large meteoroid impacts

P0040; EPSC2008-A-00194
Öhman, T.; Aittola, M.; Kostama, V.P.; **Korteniemi, J.**; Raitala, J.
Target rock mechanisms influence the impact crater morphology

P0041; EPSC2008-A-00515
Kawaguchi, C.; Suzuki, A.; Kurita, K.
Splashing on Mars

END OF POSTER PROGRAMME TP4

TP5 Mars polar deposits and first results from Phoenix

Convener: Hiesinger, H.
Room: Aula
Chairperson: REISS, D.; FISHBAUGH, K.

11:00–11:15; EPSC2008-A-00540
Wallis, M.K.; Wickramasinghe, J.T.; Wickramasinghe, N.C.
North-polar martian cap as habitat for elementary life

11:15–11:45; EPSC2008-A-00307
Fishbaugh, K.E.; Byrne, S.; Herkenhoff, K.; Russell, P.; Kirk, R.; Fortezzo, C.; McEwen, A.
Layers in the Martian polar deposits and the climate connection (solicited)

11:45–12:00; EPSC2008-A-00458
Levy, J.; Head, J.
Concentric crater fill in Utopia Planitia: timing and transitions between glacial and periglacial processes

12:00–12:15; EPSC2008-A-00459
Levy, J.; Head, J.; Marchant, D.
Thermal contraction crack polygon classification and distribution: morphological variations in northern hemisphere patterned ground

12:15–12:30; EPSC2008-A-00238
Kuzmin, R.O.; Zabalueva, E.V.; Evdokimova, N.A.; Christensen, P.H.; Mitrofanov, I.G.; **Litvak, M.L.**
Peculiarities of the bound water and water ice seasonal variations in the Martian surface layer of the regolith

12:30 END OF ORAL PROGRAMME TP5

TP5 Mars polar deposits and first results from Phoenix – Posters

Convener: Hiesinger, H.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: FISHBAUGH, K.

P0042; EPSC2008-A-00509
Schmidt, W.; Harri, A.-M.; Kahanpää, H.; Kauhanen, J.; Merikallio, S.; Polkko, J.; Savijärvi, H.; Siili, T.
Modeling of Phoenix Meteorological Observations Using MLAM

P0043; EPSC2008-A-00441
Polkko, J.; Kahanpää, H.; Harri, A.-M.; Schmidt, W.; Genzer, M.; Mäkelä, M.; Savijarvi, H.; Kauhanen, J.
Phoenix 07 MET pressure sensor: instrument and observations

P0044; EPSC2008-A-00259
Kneissl, T.; Neukum, G.
Indications for a non-volacnic origin of conical mounds at the mouth of Chasma Boreale, Mars

P0045; EPSC2008-A-00379
Johnsson, A.; Delbratt, E.; Mustard, J. F.; Milliken, R. E.; Reiss, D.; Hiesinger, H.; Olvmo, M.
Small scale polygonal patterns along the southern water-ice margin on Mars

END OF POSTER PROGRAMME TP5

TP10 General Planetology

Convener: Ziethe, R.
Co-Convener(s): Hiesinger, H.
Room: S9
Chairperson: ZIETHE, R.

14:00–14:15; EPSC2008-A-00294
Bandeira, L.; Barreira, C.; Pina, P.; Saraiva, J.
A comparison of automated crater detection methods

14:15–14:30; EPSC2008-A-00360
Bandeira, L.; Barreira, C.; Pina, P.; Saraiva, J.
Crater mapping in the Gusev crater area using an automated method

14:30–14:45; EPSC2008-A-00541
Schmidt, G
The influence of impactors on the chemical composition of Earth and Mars

14:45–15:00; EPSC2008-A-00495
Sharkov, E.; Bogatikov, O.
Irreversible evolution of the terrestrial planets (geological and petrological data)

15:00–15:15; EPSC2008-A-00455
Huettig, C.; Breuer, D.
Scaling of temperature- and pressure-dependent viscosity convection

15:15–15:30; EPSC2008-A-00210
Keller, T.; Tackley, P. J.
Towards self-consistent modelling of the Martian dichotomy: The influence of one-ridge convection on crustal thickness distribution

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15:30 END OF ORAL PROGRAMME TP10

TP10 General Planetology – Posters

Convener: Ziethe, R.
Co-Convener(s): Hiesinger, H.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: ZIETHE, R.

P0046; EPSC2008-A-00513
Toyota, T.; Kawaguchi, K.; Kurita, K.
Time-variable surface patterns as an indicator of surface environments on Mars

P0047; EPSC2008-A-00525
D'Amore, M.; Palomba, E.; Zinzi, A.; Maturilli, A.; Helbert, J.
Principal Component Analysis and Target Transformation end-member recovery : application to last PFS MEX data

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END OF POSTER PROGRAMME TP10

Solar System Atmospheres and Oceans

GA2 Atmospheres of Outer Planets and Moons

Convener: Dutuit, O.
Co-Convener(s): Miller, S.
Room: S1
Chairperson: N.N.

11:00–11:30; EPSC2008-A-00548
Mousis, O.; THE TITAN TEAM
Origin of Titan and its Atmosphere: New Lights from Cassini-Huygens (solicited)

11:30–11:45; EPSC2008-A-00305
Owen, T.; Niemann, H.; Gautier, D.; Kasprzak, W.; Atreya, S.; Lunine, J.
Noble Gases and Deuterium

11:45–12:00; EPSC2008-A-00555
Schmitt, B.; Mousis, O.
Sequestration of ethane in the cryovolcanic subsurface of Titan

12:00–12:15; EPSC2008-A-00099
Yelle, R. V.; Lavvas, P.; Vuitton, V.
The Detached Haze Layer in Titan's Mesophere: Observations and Analysis

12:15–12:30; EPSC2008-A-00084
Vuitton, V.; Lavvas, P.; Yelle, R. V.; Wellbrock, A.; Lewis, G. R.; Coates, A.; Thissen, R.; Dutuit, O.
Negative ion chemistry in Titan's upper atmosphere

12:30 Lunch Break

Chairperson: N.N.

14:00–14:30; EPSC2008-A-00593
Waite Jr., J.H.; Magee, B.A.; Teolis, B.D.
The Gas Composition of the Plume of Enceladus (solicited)

14:30–14:45; EPSC2008-A-00064
Guerlet, S.; Fouchet, T.; Bézard, B.; Simon-Miller, A.A.; Flasar, F.M.
Hydrocarbons meridional and vertical distribution in Saturn's stratosphere from Cassini/CIRS limb observations

14:45–15:00; EPSC2008-A-00594
Kliore, A.J.; Marouf, E.A.; Nagy, A.F.; Flasar, F.M.
Recent Cassini radio science observations of the ionosphere and atmosphere of Saturn

15:00–15:15; EPSC2008-A-00027
Baines, K.; Momary, T.; Kim, J.; Roos-Serote, M.; Showman, A.; Atreya, S.; Brown, R.; Buratti, B.; Clark, R.; Nicholson, P.
In the slow winds of Saturn: Thunderstorms, the String of Pearls and the mid-latitude annular cloud

15:15–15:30; EPSC2008-A-00096
Irwin, P.G.J; Teanby, N.A.; Davis, G.R.
Vertical cloud structure of Uranus from UKIRT/UIST observations and changes seen during northern spring equinox in 2007

15:30 Coffeee Break

Chairperson: N.N.

15:45–16:00; EPSC2008-A-00097
Pérez-Hoyos, S.; Hueso, R.; García-Melendo, E.; Legarreta, J.; Sánchez-Lavega, A.
Jupiter's anticyclone BA: dynamics and color change

16:00–16:15; EPSC2008-A-00283
Cipriani, F.; Leblanc, F.; Witasse, O.; Johnson, R.E.
Exosphere and Surface coupling at Europa : case of Sodium

16:15–16:30; EPSC2008-A-00288
Rannou, P.; Lemouelic, S.; Sotin, C.; Clark, R.; Barnes, J.; Brown, R.; Baines, K.; Buratti, B.; Drossart, P.; Nicholson, P.
The north polar region of Titan with VIMS instrument

16:30–16:45; EPSC2008-A-00433
Vinatier, S.; Bézard, B.; de Kok, R.; CIRS Investigation Team, The
Titan's haze extinction vertical profiles retrieved from Cassini/CIRS limb spectra

16:45–17:00; EPSC2008-A-00233
Rodriguez, S.; Le Mouélic, S.; Rannou, P.; Sotin, C.; Tobie, G.; Barnes, J.W.; Brown, M.E.; Griffith, C.A.; Pitman, K.M.; Schaller, E.L.; THE VIMS SCIENCE TEAM
Imaging and mapping Titan's clouds over 3.5 years with VIMS/Cassini: implications for Titan's climatology

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17:00 END OF ORAL PROGRAMME

GA2 Atmospheres of Outer Planets and Moons – Posters

Convener: Dutuit, O.
Co-Convener(s): Miller, S.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0048; EPSC2008-A-00153
Lavvas, P.; Yelle, R.V.; Vuitton, V.
The detached haze layer in Titan's mesosphere: The formation process

P0049; EPSC2008-A-00214
Pernot, P.; Carrasco, N.; Dobrijevic, M.; Hébrard, E.; Plessis, S.; Wakelam, V.
Extraterrestrial cold chemistry. A need for a specific database

P0050; EPSC2008-A-00278
Balucani, N.; Leonori, F.; Petrucci, R.; Casavecchia, P.
On the possible role of metastable excited atoms in the chemical evolution of planetary atmospheres: a laboratory investigation by the crossed molecular beam technique

P0051; EPSC2008-A-00350
Hedelt, P.; Ito, Y.; Rauer, H.; Reulke, R.; Keller, H. U.; Korth, A.; Lammer, H.; Wurz, P.; Esposito, L.
Distribution of hydrogen in Titan's corona

P0052; EPSC2008-A-00595
Thissen, R.; Vuitton, V.; Lemaire, J.; Dehon, C.; Lavvas, P.; Smith, M.A.; Pernot, P.; Dutuit, O.; Coreno, M.; Turchini, S.; Yelle, R.V.
Simulations of the first steps of molecular growth occurring in Titan ionosphere by means of synchrotron radiation irradiation of gas mixtures inside an ion trap at high mass resolution

P0053; EPSC2008-A-00604
Griffith, C.; Penteado, P.; Le Mouelic, S.; the VIMS team
An Analysis of Titan's Tropical Clouds

P0054; EPSC2008-A-00047
Levi, A.; Podolak, M.
Applying the theory of the solar corona to atmospheres around KBOs

P0055; EPSC2008-A-00098
Barrado-Izagirre, N.; **Pérez-Hoyos, S.**; Sánchez-Lavega, A.
Jupiter's brightness distribution: periodicities and power spectra

P0056; EPSC2008-A-00107
Grassi, D.; Coradini, A.; Adriani, A.; Moriconi, M.L.; Colosimo, F.; Filacchione, G.; Tosi, F.; Negrão, A.
Simulations of the Jupiter atmosphere as observed by the JIRAM-Juno instrument

P0057; EPSC2008-A-00277
Martin, S.; **de Pater, I.**; Kloosterman, J.; Hammel, H.B.
Multi-wavelength Observations of Neptune's Atmosphere

P0058; EPSC2008-A-00282
Cours, T.; Rannou, P.; Stelandre, J.; Negrão, A.; Hirtzig, M.; Coustenis, A.; Boudon, V.
A new analysis of the ESO Very Large Telescope (VLT) observations of Titan's at 2 um

P0059; EPSC2008-A-00297
Alcaraz, C; Noller, B.; Hemberger, P.; Fischer, I.; Gans, B.; Boyé-Peronne, S.; Douin, S.; Gauyacq, D.; Soldi-Lose, H.; Garcia, G.
VUV photoionisation of hydrocarbon radicals

END OF POSTER PROGRAMME GA2

Magnetospheres

MG1 Radio emission from the Sun, the planets, the heliosphere, and the exoplanets – Posters

Convener: Rucker, H.
Co-Convener(s): Zarka, P., Kurth, W.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: RUCKER, H.

P0060; EPSC2008-A-00382
Melnik, V.N.; Konovalenko, A.A.; Rucker, H.O.; Dorovskyy, V.V.; Abranin, E.P.; Stanislavskyy, A.A.
Decameter Type IV Bursts: Properties of Fiber Bursts in Emission

P0061; EPSC2008-A-00286
Arkhypov, O.V.; **Rucker, H.O.**
Regularity in S-burst chaos of Jovian decametric emission

P0062; EPSC2008-A-00022
Zaitsev, V. V.; **Shaposhnikov, V. E.**; Rucker, H. O
Electron acceleration in Titan's ionosphere and Saturn's kilometric radiation

P0063; EPSC2008-A-00355
Konovalenko, A.A.; Rucker, H.O.; Melnik, V.N.; Litvinenko, G.V.; Karlsson, R.; Panchenko, M.; Zarka, Ph.; Falkovich, I.S.; Gridin, A.A.; Koshovy, V.V.
Austria-Ukraine cooperation in the planetary science and instrumentation development as contribution to E-LOFAR concept

END OF POSTER PROGRAMME MG1
(oral programme on Tuesday)

MG2 Planetary Magnetospheres, Ionospheres and Auroras – Posters

Convener: Grande, M.
Co-Convener(s): Pryse, E.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0064; EPSC2008-A-00101
Shrivastava, G.
Kinetic Alfven waves in the presence of loss-cone distribution function in plasma

P0065; EPSC2008-A-00375
Peter, K.; Pätzold, M.; Häusler, B.; Tellmann, S.; Tyler, G.L.
Ionopause features of Mars as observed by the radio science experiment MaRS on Mars Express

END OF POSTER PROGRAMME MG2
(oral programme on Tuesday)

MG3 Solar Wind Interaction with Exospheres of Weakly and Non- Magnetized Planets

Convener: Lammer, H.
Co-Convener(s): Brain, D.
Room: Aula
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00137
Vaisberg, O.; Zelenyi, L.
Solar Wind Induced mass loss of planetary atmosphere

14:15–14:30; EPSC2008-A-00351
Barabash, S.; Fedorov, A.
Atmospheric escape due to solar wind interaction: Recent results from Mars and Venus Express

14:30–14:40; EPSC2008-A-00367
Fedorov, A.; Barabash, S.; Ferrier, C.; Sauvaud, J.-A.; Zhang, T.L.; ASPERA-4
Venus ions loss as seen from ASPERA-4 data

14:40–14:50; EPSC2008-A-00167
Szego, K.; Bebesi, Z.; Dobe, Z.; Fränz, M.; Fedorov, A.; Barabash, S.; Coates, A.J.; Zhang, T.L.
The O+ ion flow below the magnetic barrier at Venus

14:50–15:00; EPSC2008-A-00180
Ferrier, C.; Fedorov, A.; Sauvaud, J.A.; Zhang, T.L.; Barabash, S.
The mechanisms of acceleration and escaping of planetary ions at the Venus nightside

15:00–15:10; EPSC2008-A-00416
Fraenz, M.; Angsmann, A.; Dubinin, E.; Martinecz, C.; Woch, J.; Barabash, S.; Lundin, R.; Fedorov, A.
Ion density and transport in the upper ionospheres of Mars and Venus

15:10–15:20; EPSC2008-A-00391
Angsmann, A.; Dubinin, E.; Fränz, M.; Martinecz, C.; Woch, J.; Barabash, S.; Pätzold, M.; Zhang, T.L.
Structure and dynamics of the ionopause of Venus

15:20–15:30; EPSC2008-A-00453
Hartle, R.; Sittler, E.
Comparisons of selected atmospheric escape mechanisms on Venus, Mars and Titan

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15:30 END OF ORAL PROGRAMME MG3

MG3 Solar Wind Interaction with Exospheres of Weakly and Non- Magnetized Planets – Posters

Convener: Lammer, H.
Co-Convener(s): Brain, D.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0066; EPSC2008-A-00147
Liu, K.; Jarvinen, R.; Kallio, E.; Janhunen, P.; Galli, A.; Wurz, P.; Barabash, S.
Hybrid simulations of the hydrogen energetic neutral atoms at Mars

P0067; EPSC2008-A-00148
Kallio, E.; Liu, K.; Jarvinen, R.; Janhunen, P.
High energy hydrogen exospheres at Mars and Venus: A hybrid modeling study

P0068; EPSC2008-A-00255
Jarvinen, R.; Kallio, E.; Zhang, T. L.; Barabash, S.; Fedorov, A.; Liu, K.; Sillanpää, I.; Janhunen, P.
Hybrid modelling the Venus-solar wind interaction with non-constant IMF clock angle

P0069; EPSC2008-A-00333
Martinecz, C.; Boesswetter, A.; Fraenz, M.; Roussos, E.; Motschmann, U.; Barabash, S.; Zhang, T. L.; Lammer, H.; Lichtenegger, H.; Kulikov, Y.
The plasma environment of Venus: comparison of Venus Express ASPERA-4 measurements with 3D hybrid simulations

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END OF POSTER PROGRAMME MG3

Small Bodies and Planetary Moons

SB5 Planetary Rings – Posters

Convener: Schmidt, J.
Co-Convener(s): Spahn, F.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: SCHMIDT, J., SPAHN, F.

P0070; EPSC2008-A-00034
Kochemasov, G.
Granulation in saturnian rings and atmosphere

P0071; EPSC2008-A-00040
Maravilla, D.; Martínez-Gómez, E.
Energization regions at Saturn's E-ring

P0072; EPSC2008-A-00041
Martínez-Gómez, E.; Maravilla, D.
How can a gravitational stochastic field affect the dynamics of neutral dust particles in Saturn's ring system?

P0073; EPSC2008-A-00320
Jamrath, E.; Makuch, M.; Spahn, F.
Particle distribution of a moon-fed dust torus

P0074; EPSC2008-A-00326
Hsu, H.W.; Kempf, S.; Burton, M.; Roy, M.; Srama, R.; Moragas-Klostermeyer, G.; Helfert, S.; Gruen, E.
The stream particle observation during Cassini's Saturn tour

P0075; EPSC2008-A-00363
Beckmann, U.; Hsu, S.; **Kempf, S.**
The long-term evolution of E ring particles

END OF POSTER PROGRAMME SB5
(oral programme on Tuesday)

SB8 Meteorites – Posters

Convener: Pack, A.
Co-Convener(s): van der Bogert, C.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0076; EPSC2008-A-00627
Grokhovsky, V.I.; Uymina, K.A.; Glazkova, S.A.; Karkina, I.E.; Oshtrakh, M.I.
Study of submicrostructure of ataxite Chinga IVB using nanoscopic techniques

P0077; EPSC2008-A-00296
Fodor, E.
Technological methods in research for icy meteorites on cold region

P0078; EPSC2008-A-00572
Postberg, F.; Srama, R.; Hillier, J.K.; Sestak, S.; Green, S.F.; Trieloff, M.; Grün, E.
Simulating STARDUST: Reproducing Impacts of Interstellar Dust in the Laboratory

END OF POSTER PROGRAMME SB8
(oral programme on Tuesday)

Origins

ON3/ON5/ON9 Origin and Evolution of Planetary Atmospheres and Life

Convener: Lammer, H.
Co-Convener(s): Rauer, H., Muller, C., Zegers, T., Cockell, C., Westall, F., Amils, R.
Room: S8
Chairperson: ZEGERS, T. E.

11:00–11:30; EPSC2008-A-00444
Nisbet, E.G.
Comparative habitability of the Earth, Venus and Mars in the young solar system (solicited)

11:30–11:45; EPSC2008-A-00512
Westall, F.
What traces of life can we expect on Mars? Lessons from the early Earth (solicited)

11:45–12:00; EPSC2008-A-00164
van Ruitenbeek, F.; Cudahy, T.; Hale, M.; van der Werff, H.; van der Meer, F.
Tracing fluid pathways in Archean hydrothermal systems with imaging spectroscopy

12:00–12:15; EPSC2008-A-00346
Breuer, D.; Chicarro, A.; Carpenter, J.; Chassefiere, E.; Dehant, V.; Fisackerly, R.; Grady, M.; Pinet, P.; Rossi, A.; Santovincenzo, A.
Study of habitability from Mars-NEXT

12:15–12:30; EPSC2008-A-00359
Kempe, S.; Hartmann, J.; Kazmierczak, J.
Recent alkaline lakes: clues to understanding the evolution of early planetary alkaline oceans and biogenesis

12:30–13:00; EPSC2008-A-00039
Bredehöft, J.H.
Habitability and Life – an Overview (solicited)

13:00 Lunch Break

Chairperson: MULLER,C.

14:00–14:15; EPSC2008-A-00036
Depiesse, C.; Willame, Y.; **Muller, C.**; Moreau, D.; Gillotay, D.; Daerden, F.; Kaminski, J.W.; McConnell, J.C.
Ozone maps and Martian surface UV from two Martian years of SPICAM data

14:15–14:30; EPSC2008-A-00113
Buch, A.; Sternberg, R; Garnier, C.; Freissinet, C.; Szopa, C.; El Bekri, J.; Coll, P.; Rodier, C.; Raulin, F.; Goesmann, F.
Development of a Sample Processing System (SPS) for the in situ search of organic compounds on Mars : application to the Mars Organic Molecule Analyzer (MOMA) experiment

14:30–14:45; EPSC2008-A-00114
Freissinet, C.; Buch, A.; Sternberg, R.; Rodier, C.; Garnier, C.; Szopa, C.; Stambouli, M.; Goesmann, F.
Looking for clues of extant or extinct life on Mars: GC-MS analysis of amino acid enantiomers using N,N-Dimethylformamide Dimethylacetal (DMF-DMA)

14:45–15:00; EPSC2008-A-00219
Vdovina, M. A.; Pavlov, A. K.; Shelegedin, V. N.; Kogan, V. T.
Laboratory studying of metabolic activity of terrestrial bacteria in subsurface martian environments

15:00–15:15; EPSC2008-A-00411
Thomas, C.; Mousis, O.; Picaud, S.; Ballenegger, V.; Schmitt, B.
Do clathrate hydrates have any influence on the atmosphere of Mars?

15:15–15:30; EPSC2008-A-00046
Lichtenegger, H.I.M; Lammer, H.; Grießmeier, J.-M.; Tian, F.; Kulikov, Yu.N.; Kasting, J.
Solar wind induced atmospheric erosion from a EUV heated and expanded early Earth atmosphere

15:30 Coffeee Break

Chairperson: LAMMER, H.

15:45–16:00; EPSC2008-A-00079
Rauer, H.; Grenfell, J. L.; Stracke, B.; von Paris, P.; Gebauer, S.; Godolt, M.
Variation of Atmospheric Biogenic Emissions in a coupled Radiative-Photochemical Model

16:00–16:15; EPSC2008-A-00522
Kulikov, Yu. N; **Lammer, H.**
On the thermal loss of a planetary atmosphere due to irradiation by the solar EUV during earlier and present epochs

16:15–16:30; EPSC2008-A-00553
Serozhkin, Yu.
Thunderstorm activity in early Earth: same estimations from point of view a role of electric discharges in formation of prebiotic conditions

16:30–16:45; EPSC2008-A-00368
Gröller, H.; Lammer, H.; Lichtenegger, H.I.M; Shematovich, V.I.; Kulikov, Yu.N.
Implications of dissociative recombined hot atoms for the atmospheric escape of lower mass planets

16:45–17:00; EPSC2008-A-00073
von Paris, P; Grenfell, J L; Hedelt, P; Stracke, B; Rauer, H
Hot Super-Earths around K- and M-stars

17:00–17:15 General Discussion

17:15 END OF ORAL PROGRAMME ON3/ON5/ON9

ON3/ON5/ON9 Origin and Evolution of Planetary Atmospheres and Life – Posters

Convener: Lammer, H.
Co-Convener(s): Rauer, H., Muller, C., Zegers, T., Cockell, C., Westall, F., Amils, R.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0079; EPSC2008-A-00397
Gómez, F.; Rodriguez-Manfredi, J.A.; Gómez-Elvira, J.
Potential Habitability in MSL Landing Sites: Tiu Valles Mouth as a Previous Example

P0080; EPSC2008-A-00493
Kazmierczak, J.; Altermann, W.; Kremer, B.; Kempe, S.; Eriksson, P.G.
Late Archean mineralised cyanobacterial mats and their modern analogs

P0081; EPSC2008-A-00061
Rauschenbach, I.; Lazic, V.; Pavlov, S. G.; Huebers, H. W.; Jessberger, E. K.
The effects of water and ice on LIBS signals and the detection of water on Mars

P0082; EPSC2008-A-00605
Wills, D.; Monaghan, E.; Foing, B.H.
Selecting a landing site of astrobiological interest for Mars landers and sample return missions

P0083; EPSC2008-A-00080
Grenfell, J. L.; von Paris, P.; Stracke, B.; **Rauer, H.**
Photochemical Responses of Biomarkers in Superearth Atmospheres

P0084; EPSC2008-A-00386
Kereszturi, A.; **Berczi, Sz.**; Horvath, A.; Ganti, T.; Kuti, A.; Pocs, T.; Sik, A.; Szathmary, Sz.
North-south comparison of springtime dark slope structures on Mars, and the possibility of liquid water

P0085; EPSC2008-A-00426
Kitzmann, D.; Patzer, A.B.C; von Paris, P.; Grenfell, L.; Rauer, H.
Climatic effects of cloud particles in the atmospheres of Earth-like extrasolar planets

P0086; EPSC2008-A-00488
Molina-Sevilla, P.; Lozano-Ramírez, C.; Navarro-González, R.; Callegan, R.; Rainey, F. A.; Cruz-Kuri, L.; McKay, C. P.
Limits of life across an altitudinal gradient in a tropical dormant Volcano

P0087; EPSC2008-A-00072
von Paris, P; Patzer, B; Grenfell, J.L.; Hedelt, P; Stracke, B; Rauer, H
Atmospheric composition of cold super-Earths

END OF POSTER PROGRAMME ON3/ON5/ON9

ON4 Exoplanet atmospheres: detection and characterisation – Posters

Convener: Tinetti, G.
Co-Convener(s): Fridlund, M.
Display Time: Monday, 08:30–Wednesday, 13:00
Authors in Attendance: Monday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0088; EPSC2008-A-00329
Paillet, J.P.; Selsis, F.S.; Allard, F.A.; Fridlund, M.F.
Assessing the detectability of biomarkers

P0089; EPSC2008-A-00456
Carone, L.; Pätzold, M.
Tidal interaction between Exoplanets and their host stars. Implications for orbit stability and stellar rotation evolution

P0090; EPSC2008-A-00542
Patzer, A.B.C; von Paris, P.; Kitzmann, D.; Rauer, H.; Grenfell, J.L.
On the condensating species in terrestrial extrasolar planetary atmospheres

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END OF POSTER PROGRAMME ON4
(oral programme on Tuesday)

SESSION PROGRAMME

TUESDAY

Missions and Techniques

MT10 Exploring the Solar System: A tribute to Elmar K. Jessberger

Convener: Hiesinger, H.
Co-Convener(s): Stephan, T.
Room: Aula
Chairperson: HIESINGER, H.

17:30–17:45; EPSC2008-A-00596
Kissel, J.
PIA, PUMA, CoMA, CIDA, COSIMA: steps on the way to the in-situ analysis of cometary dust

17:45–18:00; EPSC2008-A-00308
Stephan, T.; Leitner, J.; van der Bogert, C. H.
Comparing Wild 2 matter with Halley's dust and interplanetary dust particles

18:00–18:15; EPSC2008-A-00601
Grün, E.
In-situ Measurements of Interplanetary and Interstellar Dust

18:15–18:30; EPSC2008-A-00597
Mann, I.
Interplanetary and interstellar dust: astrophysical implications of space measurements

18:30–18:45; EPSC2008-A-00598
Trieloff, M.
Chronology of the early solar system

18:45–19:00; EPSC2008-A-00602
Spohn, T.
Planetary evolution and habitability

19:00 END OF ORAL PROGRAMME MT10

Terrestrial Planets

TP2 New Science from Mercury

Convener: Hiesinger, H.
Co-Convener(s): Head, J.
Room: Aula
Chairperson: HIESINGER, H.

9:00–9:30; EPSC2008-A-00089
Solomon, S. C.; McNutt, R. L.; Evans, L. G.; Head, J. W.; Krimigis, S. M.; Murchie, S. L.; Nittler, L. R.; Philips, R. J.; Slavin, J. A.; Zuber, M. T.
The Return to Mercury: An Overview of MESSENGER's First Mercury Flyby (solicited)

9:30–9:45; EPSC2008-A-00425
Zurbuchen, T.H.; Raines, J.M.; Gloeckler, G.; Krimigis, S.M.; Slavin, J.A.; Koehn, P.L.; Killen, R.M.; Sprague, A.L.; McNutt, R.L.; Solomon, S.C.
Overview of Mercury's ionized exosphere and plasma environment: Results from the first MESSENGER flyby

9:45–10:00; EPSC2008-A-00406
Killen, R.; McClintock, W.; Bradley, E.; Izenberg, N.; Lankton, M.; Mouawad, N.; Sprague, A.; Vervack, R.; Potter, A.; Bida, T.
Observations of Mercury's exosphere during the first MESSENGER flyby

10:00–10:15; EPSC2008-A-00312
Killen, R.; Huebner, W.; Zurbuchen, T.; Raines, J.; Gloeckler, G.; McClintock, W.; Sprague, A.; Solomon, S.
Prediction of neutral Mg in Mercury's exosphere

10:15–10:30; EPSC2008-A-00314
Sarantos, M.; Slavin, J.A.; Benna, M.; Killen, R.M.; Boardsen, S.; Zurbuchen, T.H.; Krimigis, S.M.; Schriver, D.
Sodium pick-up ion distribution during the first MESSENGER flyby: An event study

10:30 Coffee Break

Chairperson: HELBERT, J.

11:00–11:30; EPSC2008-A-00501
McNutt Jr., R. L.; Zurbuchen, T. H.; Raines, J. M.; Gloeckler, G.; Krimigis, S. M.; Anderson, B. J.; Slavin, J. A.; Koehn, P. L.; Killen, R. M.; Solomon, S. C.
Temperature of Mercury's plasma electron environment: limits from the first MESSENGER flyby (solicited)

11:30–11:45; EPSC2008-A-00189
Slavin, J. A.; Acuna, M. H.; Anderson, B. J.; Benna, M.; Gloeckler, G.; Krimigis, S. M.; Raines, J. M.; Schriver, D.; Trávnícek, P.; Zurbuchen, T. H.
MESSENGER observations of Mercury's bow shock and magnetopause

11:45–12:00; EPSC2008-A-00306
Benna, M.; Sarantos, M.; Slavin, J.; Krimigis, S.; Baker, D.
Three-dimensional modeling of Mercury's bow shock shape and position as functions of Alfven Mach number

12:00–12:15; EPSC2008-A-00486
Schriver, D.; Travnicek, P.; Paral, J.; Slavin, J.A.; Sarantos, M.; Anderson, B.J.; Korth, H.; Zurbuchen, T.H.; Baker, D.N.; Killen, R.M.
Ion Transport in Mercury's Magnetosphere during the MESSENGER Flyby

12:15–12:30; EPSC2008-A-00279
Boardsen, S.; Anderson, B.; Korth, H.; Slavin, J.; Acuna, M.; Green, J.; Raines, J.; Zurbuchen, T.; Schriver, D.; Travnicek, P.
ultra-low-frequency wave observations by messenger during its January 2008 flyby through Mercury's magnetosphere

12:30 Lunch Break

Chairperson: MULTHAUP, K.

14:00–14:30; EPSC2008-A-00469
Head III, J. W.; the MESSENGER Science Team
The MESSENGER mission to Mercury: new insights into geological processes and evolution (solicited)

14:30–14:45; EPSC2008-A-00446
Wilson, L.; Head III, J. W.
Volcanism on Mercury (dikes, lava flows, pyroclastics): Crust/mantle density contrasts, the evolution of compressive stress and the presence of mantle volatiles

14:45–15:00; EPSC2008-A-00090
Korth, H.; Anderson, B. J.; Glassmeier, K.-H.; Acuna, M. H.; Johnson, C. L.; Purucker, M. E.; Slavin, J. A.; Zurbuchen, T. H.; Schriver, D.; Solomon, S. C.
Toward an improved understanding of the magnetic field of Mercury: Results using data from the first MESSENGER flyby

15:00–15:15; EPSC2008-A-00504
Benkhoff, J.
MPO - The BepiColombo Mercury Planetary Orbiter

15:15–15:30; EPSC2008-A-00008
Ksanfomality, L.
New images of Mercury in the 210-350 W longitude range

15:30 Coffee Break

Chairperson: BENKHOFF, J.

15:45–16:00; EPSC2008-A-00001
Multhaup, K.
Thermal evolution of Mercury

16:00–16:15; EPSC2008-A-00106
Tackley, P. J.; Aurnou, J. M.; Aubert, J.
Influence of Mercury's laterally varying surface temperature on its mantle convection, geoid, lithospheric stress distribution and dynamo action

16:15–16:30; EPSC2008-A-00369
Rivoldini, A.; Van Hoolst, T.; Verhoeven, O.
Improvements on the interior structure of Mercury expected from geodesy measurements

16:30–16:45; EPSC2008-A-00221
Koch, C.; Christensen, U.R.; Kallenbach, R.
Analysis of global static and time-dependent topography from laser altimeter data records using a rectangular-grid method

16:45–17:00; EPSC2008-A-00460
Pauer, M.; Cadek, O.; Breuer, D.; Spohn, T.
The influence of Mercury's dynamic interior on its gravity field

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17:00 END OF ORAL PROGRAMME TP2

Magnetospheres

MG1 Radio emission from the Sun, the planets, the heliosphere, and the exoplanets

Convener: Rucker, H.
Co-Convener(s): Zarka, P., Kurth, W.
Room: S1
Chairperson: RUCKER, H.

9:00–9:15; EPSC2008-A-00177
Melnik, V.N.; Rucker, H.O.; Konovalenko, A.A.; Dorovskyy, V.V.; Abranin, E.P.; Lonskaya, A.S.
Solar S-Bursts in Frequency Band 10-30 MHz

9:15–9:45; EPSC2008-A-00505
Schreiber, R.
Search for dayside AKR sources (solicited)

9:45–10:00; EPSC2008-A-00181
Panchenko, M.; Khodachenko, M. L.; Kislyakov, A. G.; Rucker, H. O.; Hanasz, J.; Kaiser, M. L.; Bale, S D.; Lamy, L.; Zarka, P.; Goetz, K.
Signatures of terrestrial rotation in Auroral Kilometric Radiation observed by STEREO/SWAVES

10:00–10:15; EPSC2008-A-00126
Shrivastava, J.; Shrivastava, G.
Ion and electron beam effects on kinetic Alfven waves in the presence of loss-cone

10:15–10:30; EPSC2008-A-00566
Hess, S.; **Mottez, F.**; Zarka, P.
Alfvén waves in the Io flux tube: generation of S-bursts and fine structures

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10:30 Coffee Break

Chairperson: SCHREIBER, R.

11:00–11:15; EPSC2008-A-00154
Litvinenko, G.V.; Zakharenko, V.V.; Rucker, H.O.; Nikolaenko, V.N.; Konovalenko, A.A.; Vinogradov, V.V.; Ulyanov, O.M.; Ryabov, B.P.; Shaposhnikov, V.E.
Investigation of the long series of Jovian S-bursts with the high time resolution waveform receiver

11:15–11:45; EPSC2008-A-00050
Khodachenko, M. L.; Kislyakov, A. G.; Panchenko, M.; Taubenschuss, U.; Rucker, H. O.
Possible manifestations of Saturnian moons in the long-periodic variations of SKR (solicited)

11:45–12:15; EPSC2008-A-00563
Cecconi, B.; Lamy, L.; Fischer, G.; Zarka, P.; Kurth, W. S.
SKR Characteristics and Variability with Cassini/RPWS/HFR data (solicited)

12:15–12:30; EPSC2008-A-00176
Konovalenko, A.A.; Abranin, E.P.; Rucker, H.O.; Stanislavsky, A.A.; Kolyadin, V.L.; Melnik, V.N.; Muha, D.V.; Brazhenko, A.I.; Lecacheux, A.; Zarka, Ph.
The search of active stars radio emission at decametre wavelength

12:30–12:45; EPSC2008-A-00151
Majid, W; Winterhalter, D; Kuiper, T; Lazio, J
Search for radio emission from exoplanets: dynamic spectra from GMRT observations

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12:45 END OF ORAL PROGRAMME MG1

MG2 Planetary Magnetospheres, Ionospheres and Auroras

Convener: Grande, M.
Co-Convener(s): Pryse, E.
Room: S1
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00112
Radioti, A.; Grodent, D.; Hill, M.; Gerard, J.-C.; McNutt Jr., R.L.; Krimigis, S.M.
Hubble Space Telescope and New-Horizons simultaneous observations: Evidence of particle acceleration

14:15–14:30; EPSC2008-A-00056
Grodent, D.; Radioti, A.; Bonfond, B.; Gérard, J.-C.
Jupiter's main auroral emission; local time and temporal variability

14:30–14:45; EPSC2008-A-00170
Bonfond, B.; Grodent, D.; Gérard, J.-C.; Gustin, J.; Radioti, A.; Jacobsen, S.; Saur, J.
Three-dimensional extension of the Io UV footprint emissions

14:45–15:00; EPSC2008-A-00366
Jacobsen, S.; Saur, J.; Neubauer, F. M.; Bonfond, B.; Gérard, J.-C.; Grodent, D.
The Io Footprint Morphology

15:00–15:15; EPSC2008-A-00247
Chen, C. X.
Field-aligned Currents in Io's Plasma Wake

15:15–15:30; EPSC2008-A-00415
Barthelemy, M.; Lilensten, J.; Menager, H.; Simon, C.; Lystrup, M.; Miller, S.; Gronoff, G.
Spectral line polarization: a new observable for planetary space environment studies

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15:30 Coffee Break

Chairperson: N.N.

15:45–16:00; EPSC2008-A-00082
Müller, A. L.; Saur, J.; Krupp, N.; Mitchell, D. G.; Krimigis, S. M.; Roussos, E.
Azimuthal plasma flow in the Kronian magnetosphere

16:00–16:15; EPSC2008-A-00122
Gérard, J.-C.; Bonfond, B.; Gustin, J.; Grodent, D.; Clarke, J.T.
The altitude of Saturn's aurora: implications for the auroral electron energy

16:15–16:30; EPSC2008-A-00439
Spain, T; Achilleos, N; Aruliah, A
A comparison of the consequences of thermospheric inertia on Saturn and Earth

16:30–16:45; EPSC2008-A-00371
Dubinin, E.; Modolo, R.; Fraenz, M.; Woch, J.; Duru, F.; Akalin, F.; Gurnett, D.; Chanteur, G.; Barabash, S.; Lundin, R.
Plasma environment of Mars as observed by simultaneous

16:45–17:00; EPSC2008-A-00348
Pätzold, M.; Tellmann, S.; Peter, K.; Mendillo, M.; Withers, P.; Häusler, B.; Hinson, D.P.; Tyler, G.L.
The Structure of the Mars Ionosphere

17:00–17:15; EPSC2008-A-00111
Simon, C.; Witasse, O.; Leblanc, F.; Gronoff, G.; Lilensten, J.; Bertaux, J.-L.
Observing and modelling Mars' airglow

17:15 Break

Chairperson: N.N.

17:30–17:45; EPSC2008-A-00054
Alexeev, I.; Belenkaya, E.; Bobrovnikov, S; Slavin, J.; Sarantos, M.
Determination of Mercury's magnetic dipole moment which fits the measurements taken during Mariner 10's flybys

17:45–18:00; EPSC2008-A-00119
Gronoff, G.; Simon, C.; Lilensten, J.; Barthélemy, M.
Dayglow and nightglow of the upper atmosphere of Venus

18:00–18:15; EPSC2008-A-00544
Grande, M.; Whittaker, I.; Guymer, G.; Barabash, S.; The ASPERA team
Venusian ion populations and bow shock as seen by the ASPERA-4 ion instrument on Venus Express

18:15–18:30; EPSC2008-A-00250
Guymer, G; Grande, M; Whittaker, I
Ion signatures of magnetic flux ropes in the Venusian ionosphere as observed by APSERA-4 and MAG onboard Venus Express

18:30–18:45; EPSC2008-A-00347
Pätzold, M.; Häusler, B.; Tellmann, S.; Bird, M.; Tyler, G.L.
The Structure of the Venus Ionosphere

18:45–19:00; EPSC2008-A-00123
Smirnov, V.M.; Dubrov, M.N.
Correlation of terrestrial surface oscillations and ionosphere disturbances during the earthquakes according to laser interferometer and GPS data

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19:00 END OF ORAL PROGRAMME MG2

Small Bodies and Planetary Moons

SB5 Planetary Rings

Convener: Schmidt, J.
Co-Convener(s): Spahn, F.
Room: S8
Chairperson: SCHMIDT, J.

9:00–9:30; EPSC2008-A-00135
Colwell, J.E.; Esposito, L.W.; Lissauer, J.J.; Jerousek, R.G.; Sremcevic, M.
Three-dimensional structure of Saturn's rings from Cassini UVIS stellar occultations (solicited)

9:30–9:45; EPSC2008-A-00131
Esposito, L.W.
History of Saturn's rings from Cassini UVIS observations

9:45–10:00; EPSC2008-A-00042
Spilker, L.; Flandes, A.; Altobelli, N.; Leyrat, C.; Pilorz, S.; Ferrari, C.; Flasar, F.
Cassini CIRS temperature variations with changing solar elevation in Saturn's rings

10:00–10:15; EPSC2008-A-00285
Heißelmann, D.; Fraser, H. J.; Blum, J.
Experimental Studies on the Collision Behavior of Saturnian Ice Particles

10:15–10:45; EPSC2008-A-00574
Lewis, M.; Stewart, G.
Propellers in the A ring: What are we seeing? (solicited)

10:45 Coffee Break

Chairperson: COLWELL, J.

11:00–11:30; EPSC2008-A-00254
Showalter, M.; Lissauer, J.; French, R.; Hamilton, D.; Nicholson, P.; de Pater, I.; Hammel, H.
New Phenomena in the Uranian Ring-Moon System (solicited)

11:30–11:45; EPSC2008-A-00017
Krüger, H.; Hamilton, D. P.; Moissl, R.; Grün, E.
Galileo in-situ dust measurements and the sculpting of Jupiter's gossamer rings by its shadow

11:45–12:00; EPSC2008-A-00241
Makuch, M.; Flassig, R. J.; Schmidt, J.; Seiss, M.; Spahn, F.
The Origin and Dynamics of Heliotropic Ringlets in Saturnian System

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12:00 Lunch Break

Chairperson: SPAHN, F.

14:00–14:30; EPSC2008-A-00166
Hedman, M. M.; Nicholson, P. D.; Showalter, M. R.; VIMS Team
Cassini-VIMS observations of particles in Enceladus' plume and the E ring (solicited)

14:30–14:45; EPSC2008-A-00362
Beckmann, U.; **Kempf, S.**; Schmidt, J.
How the Enceladus dust plume forms Saturn's E ring

14:45–15:00; EPSC2008-A-00562
Postberg, F.; Kempf, S.; Briliantov, N.; Schmidt, J.; Buck, U.; Srama, R.
Sodium discovered in Icy E ring Particles – Indicator for an Ocean Below Enceladus' Surface

15:00–15:15; EPSC2008-A-00062
Schmidt, J.; Sremcevic, M.
The shadow of Saturn's icy satellites on the E ring

15:15–15:30; EPSC2008-A-00275
Hsu, H.W.; Kempf, S.
The 2-D ejection model for Saturnian stream particles

15:30 END OF ORAL PROGRAMME SB5

SB8 Meteorites

Convener: Pack, A.
Co-Convener(s): van der Bogert, C.
Room: S6
Chairperson: VAN DER BOGERT, C.

15:45–16:00; EPSC2008-A-00587
van der Bogert, C. H.; Schultz, P. H.; Spray, J. G.
Differences between impact-induced veining and darkening in H and L ordinary chondrites as investigated by high strain-rate deformation experiments

16:00–16:15; EPSC2008-A-00570
Gabriel, A.; Quitté, G.; Pack, A.
Chemistry and Ni-isotope composition of ureilites and their components

16:15–16:30; EPSC2008-A-00179
Derenne, S.; Robert, F.
The chemical structure of the insoluble organic matter from carbonaceous meteorites

16:30–16:45; EPSC2008-A-00506
Moroz, L. V.; Schmidt, M.; Schade, U.; Ivanova, M. A.
Matrix materials of carbonaceous chondrites: Characterization using synchrotron-based IR reflectance microspectroscopy

16:45–17:00; EPSC2008-A-00543
Pack, A.; Süssenberger, A.; Wotzlaw, J.; Przybilla, R.; Bischoff, A.
High-precision analysis of $\Delta^{17}O$ by laser fluorination: application to terrestrial and meteoritic samples

17:00–17:15; EPSC2008-A-00230
Rout, S. S.; Bischoff, A.
Mineralogy and bulk chemical composition of Ca,Al-rich inclusions in the Rumururti (R) chondrites

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17:15 END OF ORAL PROGRAMME SB8

Origins

ON4 Exoplanet atmospheres: detection and characterisation

Convener: Tinetti, G.
Co-Convener(s): Fridlund, M.
Room: S8
Chairperson: N.N.

15:45–16:00; EPSC2008-A-00065
Koskinen, T.T.; Aylward, A.D.; Miller, S.
3D Simulations of the Upper Atmosphere and Ionosphere of HD17156b

16:00–16:15; EPSC2008-A-00195
Beaulieu, J.P.; Ribas, I.; Swain, M.; Tinetti, G.
Molecules in exoplanet atmosphere from ground based high resolution spectroscopy

16:15–16:30; EPSC2008-A-00199
Kipping, D.
Eccentric exoplanets and timing effects

16:30–16:45; EPSC2008-A-00343
Barnes, J.R.; Jones, H.R.A; Barman, T.; Leigh, C.J.; Collier Cameron, A.; Prato, L.; Segransan, D.; Pinfield, D.J.; **Jenkins, J.S.**
Near Infrared Spectroscopic Characterisation Of Close Orbiting Extrasolar Giant Planets

16:45–17:00; EPSC2008-A-00404
Bouwman, J.; Swain, M.; Tinetti, G.; Krause, O.; Henning, Th; Tanner, A.
Spectroscopy of transiting exoplanets: From Spitzer to JWST

17:00–17:15; EPSC2008-A-00424
Barber, R.J.; Tennyson, J.
High accuracy molecular line lists for exoplanetary atmospheres

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17:15 Break

Chairperson: N.N.

17:30–18:00; EPSC2008-A-00519
Swain, M.
Exoplanet spectroscopy at the tipping point (solicited)

18:00–18:15; EPSC2008-A-00436
Claudi, R.; THE SPHERE TEAM
SPHERE: exo-planets science with the new frontier of high contrast imaging

18:15–18:45; EPSC2008-A-00405
Fridlund, M.
Exoplanets from CoRoT to PLATO (solicited)

18:45–19:15; EPSC2008-A-00590
Hatzes, A.
Detecting and characterizing extrasolar planets (solicited)

19:15 END OF ORAL PROGRAMME ON4

SESSION PROGRAMME

WEDNESDAY

Missions and Techniques

MT2 Planetary VO, Tools and Science

Convener: Chanteur, G.
Co-Convener(s): Thuillot, W., Capria, M.
Room: S8
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00120
Manaud, N.; Heather, D.; Martinez, S.; Barthelemy, M.; Vazquez, J.L.; Szumlas, M.; Metselaar, H.; The ESA's Science Archives Team
The ESA's Planetary Science Archive (PSA)

14:15–14:30; EPSC2008-A-00551
Jacquey, C.; André, N.; Cecconi, B.; Génot, V.; Gangloff, M.; Budnik, E.; Pallier, E.; Bouchemit, M.
AMDA/IDIS demonstrator for planetary plasma VO

14:30–14:45; EPSC2008-A-00440
Arzoumanian, E.; Es-sebbar, Et.; Romanzin, C.; Perrier, S.; Gazeau, M.-C.; Benilan, Y.
Preliminary studies for the development of S.E.T.U.P. Experimental and Theoretical Simulations Useful for Planetology"

14:45–15:00; EPSC2008-A-00432
Head III, J. W.; Huffman, J. N.; Forsberg, A. S.; Hurwitz, D. M.; Basilevsky, A. T.; Ivanov, M. A.; Dickson, J. L.; Kumar, P. S.
Testing geoscience data visualization systems for geological mapping and training

15:00–15:15; EPSC2008-A-00423
Thuillot, W.; Dubernet, M.-L.; Le Petit, F.; Berthier, J.; Sarkissian, A.; Gontier, A.-M.; Erard, S.; Aboudarham, J.; Schneider, J.; Le Sidaner, P.; VOParisDC
Planetary resources of the VO Paris data centre

15:15–15:30; EPSC2008-A-00038
Koschny, D. V.; Barentsen, G.; Svedhem, H.
Collecting ground-based images from Venus - the Venus ground-based image Active Archive (VAA)

15:30 END OF ORAL PROGRAMME MT2
(poster programme on Thursday)

MT5 Interdisciplinary session on Planetary Computational Modelling and Data Analysis (Panel Discussion)

Convener: Khodachenko, M.
Co-Convener(s): Miller, S., Müller-Wodarg, I.
Room: S8
Chairperson: N.N.

15:45–16:00; EPSC2008-A-00048
Khodachenko, M. L.; Miller, S.; Blanc, M.
EUROPLANET FP7: development of a distributed European planetary modelling and data analysis facility

16:00–16:15; EPSC2008-A-00055
Stulov, V. P.
Consequences of collisions of natural cosmic bodies with atmosphere and the Earth's surface

16:15–16:30; EPSC2008-A-00240
Krasinsky, G.
Universal software for modelling various tasks of ephemeris and dynamical (cancelled)

16:30–16:45; EPSC2008-A-00344
Pernot, P.; Plessis, S.; Carrasco, N.
Chemical modeling and data inversion in presence of uncertainty on model and data

16:45–17:00; EPSC2008-A-00049
Khodachenko, M. L.; Kislyakov, A. G.; Panchenko, M.; Rucker, H. O.
Combined sliding-window-Fourier and Wigner-Ville transform analysis: An algorithm for study of quasi-periodic and impulsive processes in observational planetology

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17:00 END OF ORAL PROGRAMME MT5
(poster programme on Thursday)

MT6 Designing new missions to the Jupiter and Saturn Systems: Modelling of their plasma, dust and radiation environments (Workshop)

Convener: André, N.
Room: S1
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00045
Andre, N.
Introduction to the workshop

14:15–14:30; EPSC2008-A-00118
Cooper, J. F.; Sittler Jr., E. C.; Hartle, R. E.; Sturner, S. J.
High energy radiation environments of the Jupiter and Saturn systems - impacts and mitigation

14:30–14:45; EPSC2008-A-00206
Lewis, G.R.; Arridge, C.S.; Coates, A.J.; Andre, N.
Electron moments determination in negative spacecraft potential regions

14:45–15:00; EPSC2008-A-00245
Bombardelli, C.; Lorenzini, E.C.; Sanmartin, J.R.
Power Generation for a JUNO-type Mission using Electrodynamic Tethers

15:00–15:15; EPSC2008-A-00018
Krüger, H.
The dust environment of Jupiter as seen by Galileo

15:15–15:30; EPSC2008-A-00069
Garrett, H.
The jovian space environment for outer planet missions

15:30 Coffee Break

Chairperson: N.N.

15:45–16:00; EPSC2008-A-00236
Paranicas, C.; Andre, N.
Radiation environments close to the Jovian satellites

16:00–16:15; EPSC2008-A-00053
Jun, I.
Radiation environment for the Jupiter Europa Orbiter

16:15–16:30; EPSC2008-A-00276
Podzolko, M. V.; Getselev, I. V.; Gubar, Yu. I; Veselovsky, I. S.
Charged particle fluxes in Earth-Jupiter-Europa spacecraft's trajectory

16:30–16:45; EPSC2008-A-00172
Bourdarie, S; Sicard-Piet, A.
The Jupiter ONERA Electron (JOE) and Jupiter ONERA Proton (JOP) specification models

16:45–17:00; EPSC2008-A-00125
JIA, X.; Walker, R.; Kivelson, M.; Khurana, K.; Linker, J.
Ganymede's magnetosphere: results from three-dimensional MHD simulations

17:00–17:15; EPSC2008-A-00443
Paty, C.; Winglee, R.
Coupling between the magnetospheres of Ganymede and Jupiter

17:15 Break

Chairperson: N.N.

17:30–17:45; EPSC2008-A-00224
Wahlund, J-E.; André, M.; Eriksson, A. I.; Garnier, P.; Modolo, R.; Morooka, M. W.; Rosenqvist, L.; Vaivads, A.; Ågren, K.
An Overview of Cassini Langmuir Probe results at Saturn – future mission perspectives

17:45–18:00; EPSC2008-A-00149
Santos-Costa, D.; Paty, C.S.; Andre, N.; Johnson, R.E.; Menietti, J.D.; Redfern, J.; Bolton, S.J.; Young, D.T.
Source and Transport of Electron Plasma Populations in Saturn's Magnetosphere

18:00–18:15; EPSC2008-A-00479
Jones, G. H.; Coates, A. J.; Kanani, S.; Arridge, C. S.; Young, D.; Crary, F.
Enceladus's plume as observed by Cassini CAPS-ELS

18:15–18:30; EPSC2008-A-00370
Kempf, S.; Srama, R.
Saturn's dust environment as seen by Cassini

18:30–18:45; EPSC2008-A-00012
Lipatov, A.S.; Sittler, E.C.; Hartle, R.E.
Titan's plasma environment for T9 encounter: 3D hybrid simulation and comparison with observations

18:45–19:00; EPSC2008-A-00227
de Pater, Imke
LOFAR's Potential to Characterize Jupiter's Radiation Environment

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19:00 END OF ORAL PROGRAMME MT6
(poster programme on Thursday)

MT9 Stellar occultations and the distant solar system

Convener: Widemann, T.
Co-Convener(s): Sicardy, B.
Room: S8
Chairperson: SICARDY, B.

9:00–9:30; EPSC2008-A-00588
Person, M.J.; Elliot, J.L.; Pasachoff, J.M.; Gulbis, A.A.S
Probing small bodies in the outer solar system with stellar occultations (solicited)

9:30–9:45; EPSC2008-A-00589
Widemann, T.; Sicardy, B.; Lellouch, E.; Arlot, J.-E.; Colas, F.; Hubbard, W.; Hill, R.
Titania's Radius and an Upper Limit on its Atmosphere from the Sep. 8, 2001 Stellar Occultation

9:45–10:00; EPSC2008-A-00316
Georgevits, G; Ashley, M C B; Saunders, W
Detection of Kuiper Belt Objects by Stellar Occultation

10:00–10:15; EPSC2008-A-00581
Roques, F.; Guinouard, I.; Doressoundiram, A.; Felenbok, P.; Boissel, Y.; Sicardy, B.
Exploration of the Kuiper Belt by serendipitous occultations using Ultraphot and Mephos instruments (solicited)

10:15–10:45; EPSC2008-A-00516
Young, L.
Characterization and evolution of distant planetary atmospheres using stellar occultations (solicited)

10:45 Coffee Break

Chairperson: WIDEMANN, T.

11:00–11:15; EPSC2008-A-00497
Sicardy, B.; Boissel, Y.; Colas, F.; Doressoundiram, A.; Lecacheux, J.; Wideman, T.; Frappa, E.; Bath, K.-L.; Beisker, W.; Bernard, O.; Triton Occultation Team
The Triton stellar occultation of 21 May 2008

11:15–11:30; EPSC2008-A-00523
Arlot, J.E.
Mutual events in the Uranian satellite system (solicited)

11:30–11:45; EPSC2008-A-00580
Young, E.F.; Buie, M.W.
The potential to determine Pluto's radius from mutual event lightcurves, HST imaging, and Charon's radius and orbital parameters

11:45–12:00; EPSC2008-A-00579
Dunham, E.
Airborne Stellar Occultations with HIPO on SOFIA (solicited)

12:00 END OF ORAL PROGRAMME MT9
(poster programme on Thursday)

Terrestrial Planets

TP7 Mars under the microscope: New rover and orbiter results

Convener: Klingelhöfer, G.
Co-Convener(s): Hauber, E.
Room: Aula
Chairperson: KLINGELHÖFER, G.

9:00–9:15; EPSC2008-A-00309
McEwen, A.; The HiRISE Team
New discoveries on Mars from MRO/HiRISE (solicited)

9:15–9:30; EPSC2008-A-00340
Ivanov, B.; Melosh, H.; McEwen, A.
Small crater clasters: Findings from HiRise

9:30–9:45; EPSC2008-A-00237
Kreslavsky, M.
Young populations of small craters on Mars: A case study

9:45–10:00; EPSC2008-A-00337
Grott, M.; Breuer, D.
On the current thermal state of Mars

10:00–10:15; EPSC2008-A-00454
Morgan, G.; Head, J.
Investigation of the distal margins of the LVF/LDA environments in the northern mid-latitudes of Mars.

10:15–10:30; EPSC2008-A-00310
Schon, S.; Head, J.; Fassett, C.
Multiple episodes of recent gully activity indicated by gully fan stratigraphy in eastern Promethei Terra, Mars

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10:30 Coffee Break

Chairperson: HAUBER, E.

11:00–11:15; EPSC2008-A-00267
Neukum, G.
New insights into the geologic evolution of Mars by the HRSC Experiment on the Mars Express Mission (solicited)

11:15–11:30; EPSC2008-A-00143
Rossi, A. P.; Orosei, R.; Pondrelli, M.; van Gasselt, S.; Hauber, E.; Dumke, A.; Russo, F.; Cutugni, M.; Seu, R.; Neukum, G.
MEX HRSC and MRO SHARAD synergic observations on Light-Toned Deposits (LTDs)

11:30–11:45; EPSC2008-A-00374
Tirsch, D.; Jaumann, R.; Poulet, F.; Roach, L.H.; Mustard, J.L.; Bibring, J.-P.; Neukum, G.
Updates on the mineralogical analysis of dark materials in Martian craters

11:45–12:00; EPSC2008-A-00434
Hauber, E.; Gwinner, K.; Kleinhans, M.; Reiss, D.; Di Achille, G.; Ori, G.; Scholten, F.; Marinangeli, L.; Jaumann, R.; Neukum, G.
Sedimentary deposits in Xanthe Terra: Implications for the ancient climate on Mars

12:00–12:15; EPSC2008-A-00510
Sowe, M.; Roach, L.R.; Hauber, E.; Jaumann, R.; Mustard, J.L.; Neukum, G.
Interior Layered Deposits on Mars: Insights from elevation, image- and spectral data of Ganges Mensa

12:15–12:30; EPSC2008-A-00457
Sato, H.; Kurita, K.; Baratoux, D.; Pinet, P.
Landslide on Valles Marineris: morphology and flow dynamics

12:30 Lunch Break

Chairperson: KLINGELHÖFER, G.

14:00–14:15; EPSC2008-A-00573
Erkeling, G.; Reiss, D.; Hiesinger, H.; Jaumann, R.
Morphologic and stratigraphic investigations in Eastern Libya Montes, Mars: Implications for long-term fluvial activity

14:15–14:30; EPSC2008-A-00115
Lanz, J. K.; Saric, M. B.
Morphology of cone-fields in SW Elysium Planitia – Traces of hydrothermal venting on Mars?

14:30–14:45; EPSC2008-A-00121
Williams, D.; Greeley, R.; Ferguson, R.; Kuzmin, R.; McCord, T.; Combe, J-P; Head, J.; Xiao, L.; Manfredi, L.; Poulet, F.; The HRSC Co-Investigator Team
The Tyrrhena-Malea Volcanic Province: Overview

14:45–15:00; EPSC2008-A-00533
Fleischer, I.; Klingelhöfer, G.; Rodionov, D.
Depth-selective Mössbauer Spectroscopy from the two MER landing sites

15:00–15:15; EPSC2008-A-00394
Zegers, T.E.; Oosthoek, J.H.P; Rossi, A.P.; Blom, J.C.
Formation of Chaotic Terrains on Mars

15:15–15:30; EPSC2008-A-00156
Kadish, S.; Head, J.; Barlow, N.; Marchant, D.
Pedestal craters in Utopia Planitia and Malea Planum: Evidence for a past ice-rich substrate from marginal sublimation pits

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15:30 Coffee Break

Chairperson: HAUBER, E.

15:45–16:00; EPSC2008-A-00418
Zanetti, M.; Hiesinger, H.; Reiss, D.; Hauber, E.; Neukum, G.
Formation and evolution of scalloped depressions on Malea Planum and the southern rim of the Hellas Basin, Mars

16:00–16:15; EPSC2008-A-00402
Kerber, L.; Head, J.W.
The age of the Medusae Fossae Formation

16:15–16:30; EPSC2008-A-00480
Carlsson, E.; Johansson, H.A.B; **Johnsson, A.**; Heldmann, J.L.; McKay, C.P.; Olvmo, M.; Reiss, D.; Hiesinger, H.; Hauber, E.; Zanetti, M.
Field Studies of Gullies and Pingos on Svalbard – a Martian Analog

16:30–16:45; EPSC2008-A-00075
Wurm, G.; Teiser, J.; Reiss, D.
How to lift dust on Mars: greenhouse and thermophoretic effects in dust layers

16:45–17:00; EPSC2008-A-00514
Korteniemi, J.; Raitala, J.; Kostama, V.-P.; Aittola, M.; Hyvärinen, M.
Indentifying dikes in the eastern Hellas rim region, Mars

17:00–17:15; EPSC2008-A-00448
Head III, J. W.; Marchant, D. R.
Kilometer-thick ice-sheets in the northern mid-latitudes of Mars in the Amazonian: Analogs from the East Antarctic Ice Sheet and the Dry Valleys

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17:15 END OF ORAL PROGRAMME TP7
(poster programme on Thursday)

Small Bodies and Planetary Moons

SB3 Analysis of fireball observations and meteoritic rains

Convener: Stulov, V.
Co-Convener(s): Barri, N., Gritsevich, M.
Room: S6
Chairperson: STULOV, V.

17:30–17:45; EPSC2008-A-00002
Barri, N. G.
Modeling of a meteoroid fragments motion in the atmosphere. Calculation of a terrestrial crater field.

17:45–18:00; EPSC2008-A-00028
Stulov, V. P.
On disintegration of a crushed meteoric body

18:00–18:15; EPSC2008-A-00132
Popelenskaya, N. V.
the determination of the small meteoric bodies parameters by the altitude of disappearance

18:15–18:30; EPSC2008-A-00157
Gritsevich, M.I.
Computation of terminal mass for large fireballs

18:30 END OF ORAL PROGRAMME SB3

SB4 Meteoroid orbits, composition and strengths: Links to comets in the NEO and MB populations

Convener: Trigo-Rodríguez, J.
Co-Convener(s): Madiedo, J., Blum, J.
Room: S1
Chairperson: TRIGO-RODRIGUEZ, J. M.

9:00–9:30; EPSC2008-A-00092
Michel, P.
The contribution of comets in Near-Earth Object and Main Belt populations and the role of collisions in the physical properties of members of these populations (solicited)

9:30–10:00; EPSC2008-A-00377
Jopek, T.J.
Meteoroid streams: data base, searching for meteoroid streams and their parent bodies (solicited)

10:00–10:15; EPSC2008-A-00110
Trigo-Rodriguez, J.M.; Madiedo, J.M.; Castro-Tirado, A.J.; Llorca, J.; Troughton, B.
2007 fireball activity imaged by the Spanish Fireball Network: identifying meteorite delivery sources.

10:15–10:45; EPSC2008-A-00321
Madiedo, J.M.; Trigo-Rodríguez, J.M.
Analysis of a potential meteorite-dropping event over the south of Spain in 2007 (solicited)

10:45 Coffee Break

Chairperson: MADLEDO, J. M.

11:00–11:30; EPSC2008-A-00163
Trigo-Rodriguez, J.M.; Blum, J.
The role of collisional compaction in primitive asteroids and comets (solicited)

11:30–12:00; EPSC2008-A-00226
Ryabova, G.
Origin of the (3200) Phaethon - Geminid meteoroid stream complex (solicited)

12:00–12:15; EPSC2008-A-00260
Trigo-Rodríguez, J.M.; Madiedo, J.M.; Williams, I.P.; Castro-Tirado, A.J.
A cascade fragmentation of a large comet as likely origin of the Kappa Cygnid meteoroid stream: 2007 outburst orbital elements

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12:15 END OF ORAL PROGRAMME SB4
(poster programme on Thursday)

Outreach and Amateur Astronomy

OA1 Preparing for the International Year of Astronomy 2009

Convener: Wessen, A.
Co-Convener(s): Russo, P.
Room: S6
Chairperson: N.N.

9:00–9:15 Introducing IYA 2009

9:15–9:30; EPSC2008-A-00409
Hussey, K.; Doronila, P.; Kulikov, A.; Lane, K.; Upchurch, P.; Howard, J.; Harvey, S.; Woodmansee, L.
Virtual space exploration: let's use web-based computer game technology to boost IYA 2009 public interest

9:30–9:45; EPSC2008-A-00547
Evans, M.W.; Murray, C.D.
European participation in the JPL Cassini Scientist for a day program

9:45–10:00; EPSC2008-A-00611
Ansari, S.
ESA's plans for IYA2009

10:00–10:15; EPSC2008-A-00612
Ledersberger-Lehoczky, E.
Copernicus Project for the International Year of Astronomy

10:15–10:30; EPSC2008-A-00613
Jones, J. H.
What's Up? Use the night sky to engage the public through amateur astronomy in IYA; What's Up monthly astronomy themed podcasts; Annual Saturn Observation Night worldwide celebration of Saturn Opposition

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10:30 Coffee Break

Chairperson: N.N.

11:00–11:15; EPSC2008-A-00614
Martinez, C. C.
How to Engage the Media for IYA2009?

11:15 END OF ORAL PROGRAMME OA1

OA2 Public Outreach

Convener: Koehler, U.
Room: S6
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00005
Ellison, D
Bootleg Postcards, the unofficial biography of Spirit and Opportunity

14:15–14:30; EPSC2008-A-00529
Chatzichristou, E.T.
Bringing the Solar System within Reach of the Public: The Case of Greece

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14:30 END OF ORAL PROGRAMME OA2
(poster programme on Thursday)

OA3 Observing the Solar System: Contributions from Amateur Astronomy to Planetary Research

Convener: Hüttemeister, S.
Co-Convener(s): Kowollik, S., Sohl, F.
Room: S6
Chairperson: N.N.

14:45–15:15; EPSC2008-A-00021
Koschny, D. V.
Making data from amateur astronomers scientifically useful (solicited)

15:15–15:30; EPSC2008-A-00142
Arditti, D.; Rogers, J.; Foulkes, M.
Modern techniques of planetary imaging in use by amateurs and their application to the study of the atmospheric dynamics of Jupiter and Saturn (solicited)

15:30 Coffee Break

Chairperson: HÜTTEMEISTER, S.

15:45–16:00; EPSC2008-A-00413
Jacquesson, M.; Mettig, H.-J.
JUPOS: amateur analysis of Jupiter images with specialized measurement software (solicited)

16:00–16:15; EPSC2008-A-00607
Lorenz, R.D.
Seasonal Change on Titan's - HST, Cassini and Amateur Observations (solicited)

16:15–16:30; EPSC2008-A-00035
Kowollik, S.
Stormy season on Saturn?

16:30–16:45; EPSC2008-A-00534
Arlot, J.E.
Equinoxes on Jupiter and Saturn in 2009: call for observations

16:45–17:00; EPSC2008-A-00068
Gährken, B.G.
Venus in Infra Red light - ground to ground with amateur equipment (solicited)

17:00–17:15; EPSC2008-A-00489
Eberle, A.E.
Measurement of stellar occultations

17:15 END OF ORAL PROGRAMME OA3
(poster programme on Thursday)

SESSION PROGRAMME

THURSDAY

Missions and Techniques

MT1 Lunar Exploration – Posters

Convener: Foing, B.
Co-Convener(s): Oberst, J.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0001; EPSC2008-A-00272
Bérczi, Sz.; Józsa, S.; Szakmány, Gy.; Gucsik, A.; Hargitai, H.; Kereszturi, A.; Nagy, Sz.
Studies of Solar System cumulate rocks from NASA Lunar set and NIPR Martian meteorites

P0002; EPSC2008-A-00520
Gowen, R.; UK Penetrator Consortium
Kinetic penetrator trials results

END OF POSTER PROGRAMME MT1
(oral programme on Friday)

MT2 Planetary VO, Tools and Science – Posters

Convener: Chanteur, G.
Co-Convener(s): Thuillot, W., Capria, M.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0003; EPSC2008-A-00052
Tejfel, V.; Karimov, A.; Kharitonova, G.
Some particularities of the methane absorption latitudinal distribution on Saturn's disk

P0004; EPSC2008-A-00057
Hayosh, M.; Fiala, V.; Chugunov, Yu. V
Effective length of a dipole for interpretation of plasma wave amplitudes in a resonance frequency band

P0005; EPSC2008-A-00292
Sarkissian, A.
VO applications to study planetary atmospheres

P0006; EPSC2008-A-00293
Barentsen, G.; Koschny, D.; Mc Auliffe, J.; Molau, S.; Arlt, R.
The Virtual Meteor Observatory of the International Meteor Organization

P0007; EPSC2008-A-00560
Schmitt, B.; Volcke, P.; Gouanère, V.; Quirico, E.; Fray, N.; Pommerol, A.
STSP: data bases of Spectroscopy and Thermodynamics of Planetary Solids

END OF POSTER PROGRAMME MT2
(oral programme on Wednesday)

MT5 Interdisciplinary session on Planetary Computational Modelling and Data Analysis (Panel Discussion) – Posters

Convener: Khodachenko, M.
Co-Convener(s): Miller, S., Müller-Wodarg, I.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0008; EPSC2008-A-00063
Belenkaya, E.; Cowley, S. W.; Badman, S.V.; Blokhina, M.; Kalegaev, V.
Open-closed field line boundary in Saturn's polar cap dependent on the solar wind and IMF conditions

P0009; EPSC2008-A-00211
Pernot, P.
Titan atmospheric models intercomparison

P0010; EPSC2008-A-00212
Pernot, P.; Plessis, S.; Carrasco, N.; Hébrard, E.; **Dobrijevic, M.**
Key reactions in atmospheric photochemical models

P0011; EPSC2008-A-00213
Plessis, S.; Pernot, P.
Neutral species densities in Titan's upper atmosphere from Bayesian inversion of Cassini-INMS ion mass spectra

END OF POSTER PROGRAMME MT5
(oral programme on Wednesday)

MT6 Designing new missions to the Jupiter and Saturn Systems: Modelling of their plasma, dust and radiation environments (Workshop) – Posters

Convener: André, N.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0012; EPSC2008-A-00150
Santos-Costa, D.; Bolton, S.J.; Sault, R.J.; Thorne, R.M.; Miyoshi, Y.; Levin, S.M.
Time Variability of Jupiter's Radiation-Belt Emission (Analysis Results from Diffusion Theory Model)

P0013; EPSC2008-A-00468
Bespalov, P.A.; Savina, O.N.; Cowley, S.W.H
Synchronized oscillations in Jupiter electron radiation belts and some prospects for further study

END OF POSTER PROGRAMME MT6
(oral programme on Wednesday)

MT8 Planetary Robotics – Posters

Convener: Barnes, D.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0014; EPSC2008-A-00262
Bérczi, Sz.; Hegyi, S.; Hudoba, Gy.; Józsa, S.; Szakmány, Gy.
Hunveyor and Husar robotics and planetary analog geological field works in Hungary: Comparative strategies

P0015; EPSC2008-A-00263
Kabai, S.; Bérczi, Sz.
Space science education by Mathematica demonstrations: interactive conceptual design for foldable and extendable structures for space applications

END OF POSTER PROGRAMME MT8
(oral programme on Friday)

MT9 Stellar occultations and the distant solar system – Posters

Convener: Widemann, T.
Co-Convener(s): Sicardy, B.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0016; EPSC2008-A-00461
Poncy, J.; Martinot, V.; Petit, J.M.; Roques, F.; Sicardy, B.
Characterizing large transneptunian objects with several small occultation-chasing space telescopes

P0017; EPSC2008-A-00471
Vieira Martins, R.; Assafin, M.; Ribas, F.B.; Camargo, J.I.; da Silva Neto, D.N.; Andrei, A.H.
Mutual events in the Uranian system: the 2007 Brazilian observational campaign by the Rio Group

P0018; EPSC2008-A-00472
Assafin, M.; **Vieira Martins, R.**; Camargo, J.I.; da Silva Neto, D.N.; Ribas, F.B.; Andrei, A.H.
Astrometric predictions of stellar occultations by Pluto, Charon, Triton and TNOs

END OF POSTER PROGRAMME MT9
(oral programme on Wednesday)

Terrestrial Planets

TP1 Studies of rotational motion and internal dynamics of planets and satellites

Convener: Barkin, Y.
Co-Convener(s): Ferrandiz, J., Gusev, A.
Room: S8
Chairperson: N.N.

9:00–9:15; EPSC2008-A-00059
Zharkov, V.N.; Gudkova, T.V.
The period and Q of the Chandler wobble of Mars

9:15–9:45; EPSC2008-A-00162
Dehant, V.; Le Maistre, S.; Mitrovic, M.; Rosenblatt, P.; Chicarro, A.; Fisackerly, R.; The LaRa team and the SDT of Mars-NEXT
Rotation and internal dynamics from future geodesy experiment (solicited)

9:45–10:00; EPSC2008-A-00231
Petrova, N.; Gusev, A.; Hanada, H.; Heki, K.; Kawano, N.
Interpretation of the Lunar physical libration for future observations from the Lunar surface

10:00–10:15; EPSC2008-A-00141
Barkin, Yu.V.; Ferrandiz, J.M.; Navarro, J.F.
Analytical theory of rotational motion of the Moon and dynamical effects caused

10:15–10:30; EPSC2008-A-00013
Barkin, Yu.V.
Cassini's motions and resonant librations of synchronous satellites of big planets

10:30 Coffee Break

Chairperson: N.N.

11:00–11:15; EPSC2008-A-00208
Brumberg, V.; **Ivanova, T.**
The Earth's rotation problem

11:15–11:45; EPSC2008-A-00420
Kopeikin, S.; Pavlis, E.; Pavlis, D.
Millimeter laser ranging to the Moon: prospects and challenges in improving the orbital and rotational dynamics (solicited)

11:45–12:00; EPSC2008-A-00140
Barkin, Yu.V.; Ferrandiz, J.M.; Zotov, L.V.
Semi-empirical model of free and forced Mercury librations in longitude on the data of ground radar-tracking observations

12:00–12:15; EPSC2008-A-00447
Starchenko, S.
Convection and magnetic stabilities in the Earth' type planets

12:15–12:30; EPSC2008-A-00313
Gusev, A.; **Petrova, N.**
Lunar Selenocentric Navigation Almanac: coordinate systems and physical libration of the multi-layer Moon

12:30 END OF ORAL PROGRAMME TP1

TP1 Studies of rotational motion and internal dynamics of planets and satellites – Posters

Convener: Barkin, Y.
Co-Convener(s): Ferrandiz, J., Gusev, A.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0019; EPSC2008-A-00507
Kitiashvili, I.; Gusev, A.
Quasi-periodical variations of pulsars spin as mimicry of differential rotation

P0020; EPSC2008-A-00060
Gudkova, T.V.; Zharkov, V.N.
The effects of deviation of Mars from its equilibrium state on the flattening of the core-mantle boundary

P0021; EPSC2008-A-00030
Kochemasov, G.
One common structural peculiarity of the Solar system bodies including the star, planets, satellites and resulting from their globes rotation

P0022; EPSC2008-A-00599
Barkin, Yu.V.
Grid phenomenon,alignment of formations, ordered structures on planets and satellites

P0023; EPSC2008-A-00445
Barkin, Yu.V.
Titan cyclic activity mechanism and possible regime of its forced and free librations

END OF POSTER PROGRAMME TP1

TP3 Current Science from the Moon – Posters

Convener: Hiesinger, H.
Co-Convener(s): Pieters, C.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0024; EPSC2008-A-00171
Barkin, Yu.V.
Some problems of selenodynamics and inner dynamics of the Moon and others synchronous satellites

P0025; EPSC2008-A-00266
Tronche, E. J.; van Westrenen, W.; van Kan, M.; de Vries, J.; Li, J.; Chen, B.; Gao, L.; Wang, Y.; Sanehira, T.; Klemme, S.
Experimental measurements of the density of ilmenite at lunar interior pressures and temperatures

P0026; EPSC2008-A-00331
Hempel, S.; Knapmeyer, M.; Sens-Schönfelder, C.; Oberst, J.
First LOCSMITH locations of deep moonquakes

P0027; EPSC2008-A-00133
Peters, S.T.M; Foing, B.H.
Isostasy in lunar mascon areas: comparison between far side and near side

P0028; EPSC2008-A-00130
Bexkens, F.S.; Borst, A.M.; Foing, B.H.; Peters, S.T.M; Koschny, D.
"The global geological context and impact signatures in the SPA basin"

P0029; EPSC2008-A-00487
Schriver, D.; Travnicek, P.; Hellinger, P.; Bale, S.D.
Kinetic 3D Modeling of the Solar Wind Interaction with the Moon and the Formation of the Lunar Wake-Tail

END OF POSTER PROGRAMME TP3
(oral programme on Friday)

TP6 Venus Geology and Geophysics

Convener: Head, J.
Co-Convener(s): Solomatov, S., Hiesinger, H.
Room: S8
Chairperson: HEAD, J.

14:00–14:15; EPSC2008-A-00341
Ivanov, B.
Impact cratering on Venus: ballistic hole in the atmosphere

14:15–14:30; EPSC2008-A-00127
Bondarenko, N.
Venus subsurface rocks: view through the microwave properties of craters' extended deposits

14:30–14:45; EPSC2008-A-00186
Ivanov, M. A.; Head, J. W.
Lakshmi Planum, Venus: Assessment of models using observations from geological mapping

14:45–15:00; EPSC2008-A-00401
Hurwitz, D.M.; Head III, J.W.
Geology of the north polar region of Venus: Snegurochka Planitia (V-1) quadrangle

15:00–15:15; EPSC2008-A-00074
Ivanov, M.A.
Global Geological Map of Venus

15:15–15:30; EPSC2008-A-00222
Basilevsky, A; Head, J
On the geological history of Venus

15:30 Coffee Break

Chairperson: SOLOMATOV, S.

15:45–16:00; EPSC2008-A-00463
Head III, J. W.; Hurwitz, D. M.; Ivanov, M. A.; Basilevsky, A. T.; Kumar, P. S.
Venus and the Earth's Archean: Geological mapping and process comparisons

16:00–16:15; EPSC2008-A-00239
Orth, C. P.; Solomatov, V. S.; Reese, C. C.; Head, J. W.
A simple cooling model for the evolution of volcanism on Venus

16:15–16:30; EPSC2008-A-00243
Stein, C.; **Hansen, U.**
Global resurfacing on Venus: implications on plume motion and topography

16:30–16:45; EPSC2008-A-00217
Armann, M.; Tackley, P. J.
3-D Spherical modelling of the thermo-chemical evolution of Venus' mantle and crust

16:45–17:00; EPSC2008-A-00203
Solomatov, V.S.
How large is the dynamic topography on Venus?

17:00–17:15; EPSC2008-A-00421
Mueller, N.; Helbert, J.; Hashimoto, G.; Tsang, C.; Erard, S.; Piccioni, G.; Drossart, P.; The VIRTIS-VEX Team
Correlations between Venus nightside near infrared emissions measured by VIRTIS/Venus Express and Magellan radar data

17:15 END OF ORAL PROGRAMME TP6

TP6 Venus Geology and Geophysics – Posters

Convener: Head, J.
Co-Convener(s): Solomatov, S., Hiesinger, H.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: HEAD, J.

P0030; EPSC2008-A-00192
Frampton, R; Peltz, L; Rubin, S
High temperature electronics for 90-day Venus lander

END OF POSTER PROGRAMME TP6

TP7 Mars under the microscope: New rover and orbiter results – Posters

Convener: Klingelhöfer, G.
Co-Convener(s): Hauber, E.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0033; EPSC2008-A-00183
Saraiva, J.; Antunes, J.; Pina, P.; Bandeira, L.
Mapping polygonal terrains on Mars

P0034; EPSC2008-A-00327
Le Deit, L.; Bourgeois, O.; Le Mouélic, S.; Quantin-Nataf, C.; Mège, D.; Sotin, C.; Massé, M.; Sarago, V.
Morphology, composition, age and spatial extent of a layered superficial formation covering the plains around Valles Marineris, Mars

P0035; EPSC2008-A-00345
Wendt, L.; Gasselt, S. v.; Neukum, G.
Possible salt tectonics in Ariadnes Colles?

P0036; EPSC2008-A-00378
den Haan, J.; Zegers, T.E.; van Ruitenbeek, F.J.A; van der Werff, H.M.A; Rossi, A.
Detection and context of hydrated mineralogy in the Tyrrhena Terra region, Mars

P0037; EPSC2008-A-00502
Rohkamp, D.; Hiesinger, H.; Reiss, D.
Geomorphologic mapping and geomorphometric investigations of thumbprint terrain in Isidis Planitia, Mars

P0038; EPSC2008-A-00422
Pedersen, G.B.M.; Head III, J.
Geomorphic characteristics for Amazonian dike swarms emplaced in Utopia basin, Mars

P0039; EPSC2008-A-00438
Musiol, S.; van Gasselt, S.; Neukum, G.
Channel geometry and discharge estimates for Dao and Niger Valles, Mars

P0040; EPSC2008-A-00537
Reiss, D.; Hiesinger, H.; Zanetti, M.; Hauber, E.; Johnsson, A.; Carlsson, E.; Raack, J.; Olvmo, M.; Johansson, H.A.B; Johansson, L.
Debris flows of the mountain massif of Hjorthfjellet and Adventtoppen, Svalbard: Implications for gullies on mountains in the Argyre basin, Mars

P0041; EPSC2008-A-00464
Dickson, J. L.; Fassett, C. I.; Head III, J. W.
Young valley networks on Mars: Persistent flow of water in Lyot Crater, a distinctive Amazonian impact basin microenvironment

P0042; EPSC2008-A-00476
Combe, J-Ph.; **Wendt, L.**; McCord, T.B.; Neukum, G.
Detailed mapping of surface units on Mars with HRSC color data

P0043; EPSC2008-A-00552
Nußbaumer, J.
The Granicus and Tinjar Valles Channel System

P0044; EPSC2008-A-00583
Pithawala, T.; Ghent, R.
Genesis hypotheses concerning putative rootless cone groups in Isidis Planitia, Mars

END OF POSTER PROGRAMME TP7
(oral programme on Wednesday)

TP8 Titan, an Earthlike Moon? – Posters

Convener: Schmitz, N.
Co-Convener(s): André, N.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0045; EPSC2008-A-00029
Kochemasov, G.
Equatorial cross-cutting ripples on Titan - regularly warped subsiding methane plains, not eolian dunes

P0046; EPSC2008-A-00392
Langhans, M.; Jaumann, R.; Stephan, K.; Brown, R.H.; Buratti, B.J.; Clark, R.; Baines, K.H.; Nicholson, P.D.; Lorenz, R.D.
Fluvial features on Titan – Cassini VIMS and Cassini RADAR observations

END OF POSTER PROGRAMME TP8
(oral programme on Friday)

Solar System Atmospheres and Oceans

GA1 Terrestrial Planet Atmospheres

Convener: Titov, D.
Co-Convener(s): Wilson, C.
Room: Aula
Chairperson: N.N.

9:00–9:15; EPSC2008-A-00158
Owen, T.
Mars Atmosphere: Losses and Sources (solicited)

9:15–9:30; EPSC2008-A-00232
Gillmann, C.; Lognonne, P.; Chassefiere, E.; Geenen, T.; van den Berg, A.
Late evolution of the Martian atmosphere

9:30–9:45; EPSC2008-A-00043
Tellmann, S.; Pätzold, M.; Häusler, B.; Tyler, G.L.; Hinson, D.P.
The Martian Neutral Atmosphere from the Radio Science Experiment MaRS on Mars Express

9:45–10:00; EPSC2008-A-00373
Mateshvili, N.; Fussen, D.; Vanhellemont, F.; Bingen, C.; Dekemper, E.; Loodts, N.; Daerden, F.; Verhoeven, C.
Interannual variations of ice clouds and ozone from SPICAM nadir measurements

10:00–10:15; EPSC2008-A-00559
Fedorova, A.; Korablev, O.; Bertaux, J.-L.; Rodin, A.; Montmessin, F.; Reberac, A.
Vertical distributions of water vapor and aerosol in the Martian atmosphere during the southern summer (MY28) by SPICAM-IR spectrometer on Mars-Express

10:15–10:30; EPSC2008-A-00139
Mayorov, B.; Vasilyev, A.; Zasova, L.; Bibring, J.-P.
Retrieval of the Martian vertical profiles of aerosol parameters from the OMEGA Mars Express limb scan data

10:30 Coffee Break

Chairperson: N.N.

11:00–11:15; EPSC2008-A-00284
Villanueva, G. L.; Mumma, M. J.; Novak, R. E.; Hewagama, T.; Bonev, B. P.; DiSanti, M. A.
Detection and Mapping of Methane on Mars

11:15–11:30; EPSC2008-A-00058
Wolkenberg, P.; Grassi, D.; Formisano, V.; Smith, M.D.; Rinaldi, G.; D'Amore, M.
Simultaneous observations of Martian atmosphere by PFS-MEX and Mini-TES-MER

11:30–11:45; EPSC2008-A-00517
D'Amore, M.; Grassi, D.; Formisano, V.
Mars atmosphere dynamics: seasonal evolution of mean meridional temperature cross section and zonal wind derived from PFS-MEX

11:45–12:00; EPSC2008-A-00248
Martinez, G.; Valero, F.; Vazquez, L.
Martian Mixed Layer during Pathfinder Mission

12:00–12:15; EPSC2008-A-00376
Arnold, G.; Haus, R.; Kappel, D.; Drossart, P.; Piccioni, G.
VIRTIS/VEX surface and near surface observations of venus' northern hemisphere

12:15–12:30; EPSC2008-A-00508
Erard, S.; Drossart, P.; Piccioni, G.
New atmospheric windows observed on Venus night side

12:30 Lunch Break

Chairperson: N.N.

14:00–14:15; EPSC2008-A-00427
Keating, G.; Theriot, M.; Bougher, S.
Nature of the Venus thermosphere derived from satellite drag measurements (solicited)

14:15–14:30; EPSC2008-A-00044
Tellmann, S.; Häusler, B.; Pätzold, M.; Bird, M.K.; Tyler, G.L.
The Structure of the Venus Neutral Atmosphere from the Radio Science Experiment VeRa on Venus Express

14:30–14:40; EPSC2008-A-00024
Sonnabend, G.; Sornig, M.; Schieder, R.; Kostiuk, T.; Delgado, J.
Temperatures in Venus upper Atmosphere from mid infrared heterodyne Spectroscopy of CO2 around 10μm Wavelength

14:40–14:50; EPSC2008-A-00011
Sornig, M.; Sonnabend, G.; Kroetz, P.; Stupar, D.; Livengood, T.; Kostiuk, T.; Schieder, R.
Venus upper atmosphere winds from ground-based heterodyne spectroscopy of CO2 at 10μm wavelength

14:50–15:00; EPSC2008-A-00419
Ikeda, K.; Yamamoto, M.; Takahashi, M.
Venus' superrotation simulated by an atmospheric general circulation model

15:00–15:10; EPSC2008-A-00093
Yamamoto, M.; Takahashi, M.
Venus atmospheric modelling: sensitivity of superrotation to diabatic heating below the cloud layer

15:10–15:20; EPSC2008-A-00390
Moissl, R.; Khatuntsev, I.; Limaye, S.S.; Titov, D.V.; Markiewicz, W.J.
Results on atmospheric dynamics at the Venus cloud tops from wind tracking in VMC images

15:20–15:30; EPSC2008-A-00549
Limaye, S.; Moissl, R.; Markiewicz, W.; Titov, D.
Venus Atmospheric Circulation from Digital Tracking of VMC Images

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15:30 Coffee Break

Chairperson: N.N.

15:45–16:00; EPSC2008-A-00116
Piccialli, A.; Titov, D. V.; Migliorini, A.; Grassi, D.; Khatuntsev, I.; Drossart, P.; Piccioni, G.
Cyclostrophic winds in Venus mesosphere from VIRTIS/Venus Express temperature retrievals

16:00–16:15; EPSC2008-A-00561
Widemann, T.; Lellouch, E.; Donati, J.-F.
Venus Doppler Winds at Cloud Tops Observed with ESPaDOnS at CFHT

16:15–16:30; EPSC2008-A-00228
Wilquet, V.; Vandaele, A-C.; Drummond, R.; Mahieux, A.; Korablev, O.; Bertaux, J-L.
HCl, HF, CO and CO2 analysis in the upper atmosphere of Venus from SOIR spectra

16:30–16:45; EPSC2008-A-00094
Irwin, P.G.J; de Kok, R.; Negrao, A.; Tsang, C.C.C; Wilson, C.F.; Drossart, P.; Piccioni, G.; Grassi, D.; Taylor, F.W.
Spatial variability of carbon monoxide above Venus' nightside cloud tops from Venus Express/ VIRTIS measurements

16:45–17:00; EPSC2008-A-00499
Marcq, E.; Bézard, B.; Drossart, P.; Piccioni, G.
Minor species measurements near the North Pole of Venus using VIRTIS-H/Venus Express

17:00–17:15; EPSC2008-A-00225
Titov, D. V.; Markiewicz, W.J.; Moissl, R.; Ignatiev, N.; Limaye, S.; Khatuntsev, I.; Roatsch, Th.; Almeida, M.
Morphology of the Venus clouds from the imaging by Venus Monitoring Camera onboard Venus Express

17:15–17:30; EPSC2008-A-00178
Wilson, C; Tsang, CCC; Irwin, PGJ; Guerlet, S; Taylor, FW; Drossart, P; Piccioni, G; Carlson, RW
Evidence for anomalous cloud particles at the poles of Venus

17:30–17:45; EPSC2008-A-00095
Peralta, J; Hueso, R; Sánchez-Lavega, A; **Pérez-Hoyos, S**; Piccioni, G; Lanciano, O; Drossart, P
Characterization of gravity waves in the upper and lower clouds of Venus using VIRTIS-VEX images

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17:45 END OF ORAL PROGRAMME GA1

GA1 Terrestrial Planet Atmospheres – Posters

Convener: Titov, D.
Co-Convener(s): Wilson, C.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0047; EPSC2008-A-00185
Lewis, N. K.; Sandel, B. R.; Yelle, R. V.; Bertaux, J.-L.; Montmessin, F.; Quemerais, E.
O2 abundances in the Martian atmosphere determined using Mars Express SPICAM UV stellar occultation data

P0048; EPSC2008-A-00100
Zinzi, A.; Ferretti, R.; Palomba, E.; Visconti, G.
Validation of a high resolution model for Martian atmosphere

P0049; EPSC2008-A-00417
Barthelemy, M.; Gronoff, G.; Lilensten, J.; Chaufray, J-Y.; Simon, C.
Intensity of the oxygen 130nm triplet through the atmosphere of Mars and Venus; Comparison with Spicam data

P0050; EPSC2008-A-00365
Gröller, H.; Lichtenegger, H.I.M; Lammer, H.; Kulikov, Yu.N.
3D Monte-Carlo and test particle modelling of hot atoms in the thermosphere and exosphere of Venus

P0051; EPSC2008-A-00025
Besedina, Yu.N.; **Popel, S.I.**
Cyclonic Rossby vortices and a possibility of nano- and microscale dust particle transport from troposphere into stratosphere

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END OF POSTER PROGRAMME GA1

Small Bodies and Planetary Moons

SB2 Meteoroids and Dust in the Earth-Moon System – Posters

Convener: Kempf, S.
Co-Convener(s): Oberst, J.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0056; EPSC2008-A-00196
Christou, A.A.; The Meteoroid Effects Advisory Group
A multi-instrument Exomars study of meteoroid effects on the Martian environment

P0057; EPSC2008-A-00287
Oberst, J.; Flohrer, J.; Tost, W.; Elgner, S.; Koschny, D.; McAuliffe, J.
Observations of the Perseids 2007 with SPOSH cameras

P0058; EPSC2008-A-00289
Tost, W.; Flohrer, J.; Oberst, J.; Elgner, S.
Results from the Perseid Campaign 2008 with SPOSH cameras

END OF POSTER PROGRAMME SB2
(oral programme on Friday)

SB4 Meteoroid orbits, composition and strengths: Links to comets in the NEO and MB populations – Posters

Convener: Trigo-Rodríguez, J.
Co-Convener(s): Madiedo, J., Blum, J.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0059; EPSC2008-A-00451
Atreya, P.; **Christou, A.**
The 2007 Aurigid meteor outburst

P0060; EPSC2008-A-00319
Madiedo, J.M.; Trigo-Rodríguez, J.M.
On the development of new SPMN diurnal video systems for daylight fireball monitoring

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END OF POSTER PROGRAMME SB4
(oral programme on Wednesday)

SB6 Comets, Asteroids and TNOs

Convener: Jäckel, A.
Co-Convener(s): Krüger, H.
Room: S1
Chairperson: KRÜGER, H.

9:00–9:30; EPSC2008-A-00249
Michel, P.; Jutzi, M.; Richardson, D.C.; Benz, W.
Physical properties of asteroids from collisional studies (solicited)

9:30–9:45; EPSC2008-A-00216
Higuchi, A; Kokubo, E
Formation of the Oort cloud by stellar encounters

9:45–10:00; EPSC2008-A-00160
Horner, J.; Jones, B. W.
Jupiter - Friend or Foe?

10:00–10:15; EPSC2008-A-00291
Trigo-Rodríguez, J.M.; García-Melendo, E.; García-Hernández, D.A.; Davidsson, B.; Sánchez, A.; Rodríguez, D.
A continuous follow-up of Centaurs, and dormant comets: looking for cometary activity

10:15–10:30; EPSC2008-A-00067
Schulz, R.; Accomazzo, A.; Küppers, M.; Schwehm, G.; Wirth, K.
The Rosetta fly-by at asteroid (2867) Steins - three weeks after closest approach

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10:30 Coffee Break

Chairperson: JÄCKEL, A.

11:00–11:30; EPSC2008-A-00585
Wooden, D.
Comets provide insights into the Oxygen Fugacity and Radial Transport in our Protoplanetary Disk (solicited)

11:30–11:45; EPSC2008-A-00481
Jones, G. H.; Morrill, J. S.; Battams, K.; Owens, M. J.; Howard, R. A.; Stenborg, G. A.; Lisse, C. M.
Comet C/2006 P1 (McNaught): Observations by STEREO and SOHO

11:45–12:00; EPSC2008-A-00398
Barber, R.J.; Miller, S.; Dello Russo, N.; Tennyson, J.
Weak water emission lines in Comet 8P/Tuttle require changes to the excitation model

12:00–12:15; EPSC2008-A-00450
Harris, W.; Morgenthaler, J.
Interacting gas flows in split comets: A re-evaluation of the perigee outburst of C/1996B2 (Hyakutake)

12:15–12:30; EPSC2008-A-00492
Jockers, K.; Szutowicz, S.
HCN and CN in comet 2P/Encke, a three-dimensional view on comet Encke's outgassing

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12:30 Lunch Break

Chairperson: JÄCKEL, A.

14:00–14:30; EPSC2008-A-00482
Hansen, K.C.; Gombosi, T.I.; The ISSI Comet Modeing Team
A comprehensive set of comet environment models: ICES (solicited)

14:30–14:45; EPSC2008-A-00334
Rauer, H.; Hölscher, A.; Weiler, M.
Gaseous composition of comets: ensemble properties of comets from the DLR comet data base

14:45–15:00; EPSC2008-A-00318
Gehrz, R. D.; Becklin, E. E.; de Pater, I.; Dunham, E. W.; Woodward, C. E.; Kelley, M. S.
SOFIA observations of stellar occultations, extra-solar planets, asteroids, and comets

15:00–15:15; EPSC2008-A-00546
van der Bogert, C. H.; Stephan, T.; Jessberger, E. K.
Capture processing of Stardust cometary particles: Comparison of melted and unmelted particles from Type B impact tracks

15:15–15:30; EPSC2008-A-00299
Hadamcik, E; Renard, J-B; Lasue, J; Levasseur-Regourd, A.C
Polarization studies of cometary particles analogs and asteroidal regoliths analogs (PROGRA2 experiment)

15:30 END OF ORAL PROGRAMME

SB6 Comets, Asteroids and TNOs – Posters

Convener: Jäckel, A.
Co-Convener(s): Krüger, H.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0061; EPSC2008-A-00431
Hestroffer, D.; Tanga, P.; Richardson, D.C.; Berthier, J.; Cellino, A.; Durech, J.; Michel, P.
Re-accumulation of Asteroids to Equilibrium Figures

P0062; EPSC2008-A-00215
Farrelly, D.; **Hestroffer, D.**; Astakhov, S.; Lee, E.; Doressoundiram, A.; Carry, B.; Berthier, J.
Asymmetric distributions of prograde and retrograde orbits in the chaos-assisted capture model

P0063; EPSC2008-A-00201
Müller, T.; Lellouch, E.; Böhnhardt, H.; Stansberry, J.; **Hestroffer, D.**; The Herschel TNO team
Herschel Open Time Key Programme – TNOs are Cool: A Survey of the Transneptunian Region

P0064; EPSC2008-A-00223
Duffard, R.; Melita, M.; **Ortiz, J.L.**; Licandro, J.; Williams, I.P.; Jones, D.
Light-curve survey of Jupiter Trojan asteroids

P0065; EPSC2008-A-00324
Filonenko, V.; Churyumov, K.
Photometrical evolution of periodic comet 17P/Holmes

P0066; EPSC2008-A-00339
Ortiz, J.L.; Duffard, R.; Thirouin, A.; Santos Sanz, P.; Morales, N.; Aceituno, F.
Short-term photometric variations in a sample of transneptunian objects and Centaurs. Rotational properties

P0067; EPSC2008-A-00483
Jones, R. L.; Chesley, S. R.; Connolly, A. J.; Harris, A. W.; Ivezic, Z.; Knevezic, Z.; Kubica, J.; Milani, A.; Trilling, D. E.; Solar System Science Collaboration, LSST
Solar System Science with LSST

P0068; EPSC2008-A-00521
Levasseur-Regourd, A.C.; Renard, J.-B.; Hadamcik, E.; McFadden, L.
Preparing for a comparison between asteroid Steins and aubrites

P0069; EPSC2008-A-00281
Skorov, Yu.V.; Keller, H.U.
Cometary activity and subsurface sublimation. Lessons from the Deep Impact

P0070; EPSC2008-A-00265
Gironés López, J.; Maul, J.; Fernández Sánchez, J.; Rodionov, D.; Brückner, J.; Gellert, R.; d´Uston, C.; Klingelhöfer, G.
The Alpha Particle X-ray Spectrometer within the Rosetta mission: last adjustments before landing

P0071; EPSC2008-A-00251
Michel, P.; The Marco Polo Science Study Team
The Marco Polo space mission: sample return from a primitive Near-Earth Object under assessment study in the Cosmic Vision Porgram of the European Space Agency

P0072; EPSC2008-A-00015
Molina, A.; Moreno, F.; Jiménez-Fernández, F.J.
How large cometary dust grains are ?

P0073; EPSC2008-A-00031
Kochemasov, G.
Universal tectonic dichotomy of small celestial bodies expressed in their common convexo-concave shapes

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END OF POSTER PROGRAMME SB6

SB7 Comparative science of planetary Moons – Posters

Convener: Hussmann, H.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0074; EPSC2008-A-00159
Kochemasov, G.
Circular features with predictable size on Xanadu region of Titan

P0075; EPSC2008-A-00274
Robuchon, G.; Choblet, G.; **Tobie, G.**; Cadek, O.; Sotin, C.
Early Iapetus and the origin of its odd shape

END OF POSTER PROGRAMME SB7
(oral programme on Friday)

Origins

ON1 Early Evolution and Differentiation of terrestrial Planets – Posters

Convener: QUITTE, G.
Co-Convener(s): Ziethe, R.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0076; EPSC2008-A-00086
Golabek, G.J.; Tackley, P.J.; Schmeling, H.
Earth's core formation aided by flow channelling instabilities induced by iron diapirs

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END OF POSTER PROGRAMME ON1
(oral programme on Friday)

ON2 Planet Formation and the Origin of the Solar System – Posters

Convener: Ziethe, R.
Co-Convener(s): QUITTE, G., Wuchterl, G.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0077; EPSC2008-A-00077
Krot, A. M.
A gravitational potential finding for rotating cosmological body in the context of proto-planetary dynamics problem solving

P0078; EPSC2008-A-00078
Minervina, H.
The planetary bunches formation modeling from a dust-gas protoplanetary cloud

P0079; EPSC2008-A-00235
Ziethe, R.; Schröter, T.; Nyffenegger, O.; Benz, W.
A Consistent Model of Planet Formation and Differentiation: Implications from Monte–Carlo Simulations and Computational Fluid Dynamics

P0080; EPSC2008-A-00354
Graziani, L.; Aiello, S.; Belleni-Morante, A.; Cecchi-Pestellini, C.
Radiative transfer in protoplanetary disks

END OF POSTER PROGRAMME ON2
(oral programme on Friday)

ON6 Origin of life and life under extreme conditions – Posters

Convener: Stan-Lotter, H.
Co-Convener(s): Bérces, A., Horneck, G.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0081; EPSC2008-A-00033
Kochemasov, G.
Steady life on Earth due to its "right" position in the Solar system and cosmos: a comparative wave planetology approach

P0082; EPSC2008-A-00071
Kompanichenko, V.; Kralj, P.; Shlufman, K.; Frisman, E.
Fluctuating conditions in the hydrothermal medium suitable for the origin of life

P0083; EPSC2008-A-00081
Strasdeit, H.; Fox, S.
Chemical evolution at the coasts of active volcanic islands in a primordial salty ocean

P0084; EPSC2008-A-00485
Leitner, J. J.; Schwarz, R.; Funk, B.; Pilat-Lohinger, E.; Firneis, M. G.; Dvorak, R.; Eybl, V.; Eggl, S.; Aittola, M.
Alternative Solvents as a Basis for Life Supporting Zones in Planetary Systems

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END OF POSTER PROGRAMME ON6
(oral programme on Friday)

ON8 Astrobiology of Subsurface Oceans and Titan lakes – Posters

Convener: Prieto-Ballesteros, O.
Co-Convener(s): Raulin, F.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0085; EPSC2008-A-00475
Brockwell, T.G.; Grimes, J.; Waite, J.H.; Morse, A.D.
Possibilities for a Titan landed mass spectrometer

END OF POSTER PROGRAMME ON8
(oral programme on Friday)

Laboratory and Field Investigations

LF1 Astrobiology studies under simulated space conditions and in outer space

Convener: Horneck, G.
Co-Convener(s): Rettberg, P., Panitz, C.
Room: S9
Chairperson: RETTBERG, P.

9:00–9:15; EPSC2008-A-00407
Westall, F.; Demets, R.; Brandstätter, F.; Edwards, H.G.M; Cockell, C.S.; Parnell, J.; Foucher, F.; Kurat, G.; Brack, A.
STONE 6: Sedimentary meteors from Mars

9:15–9:30; EPSC2008-A-00103
Parnell, J.; Bowden, S.
Preservation of organic matter in the STONE 6 artificial meteorite experiment

9:30–9:45; EPSC2008-A-00273
Foucher, F.; Westall, F.; Bény, J.-M.; Brandstätter, F.; Demets, R.
Can microfossils in a meteor survive atmospheric entry?

9:45–10:00; EPSC2008-A-00085
Rettberg, P.; Möller, R.; Rabbow, E.; Panitz, C.; Horneck, G.; Meyer, C.; Lammer, H.; Douki, T.; Cadet, J.
The BIOPAN experiment MARSTOX II of the FOTON M-3 mission

10:00–10:15; EPSC2008-A-00124
Venkateswaran, K.; Osman, S.; Spry, J. A.; Mancinelli, R.; Rabbow, E.; Rettberg, P.; Horneck, G.
Microbial ecological perspectives of space-exposed microbes: A genetic approach

10:15–10:30; EPSC2008-A-00474
Billi, D.; Ghelardini, P.; Onofri, S.; Cockell, C.S.; Rabbow, E.; Horneck, G.
Desert Cyanobacteria under simulated space and Martian conditions

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10:30 END OF ORAL PROGRAMME LF1

LF1 Astrobiology studies under simulated space conditions and in outer space – Posters

Convener: Horneck, G.
Co-Convener(s): Rettberg, P., Panitz, C.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: HORNECK, G.

P0086; EPSC2008-A-00571
Rabbow, E.; Rettberg, P.; **Panitz, C.**; Reitz, G.
Planetary and Space simulation facilities PSI at DLR for astrobiology

P0087; EPSC2008-A-00242
Lambreva, M.; The Photo-II Team
Real-time monitoring of genetically modified Chlamydomonas reinhardtii during the Foton M3 space mission

P0088; EPSC2008-A-00083
Tepfer, D.; Zalar, A.; Leach, S.
Ground and space experiments to determine the ability of plant seeds to survive in space

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END OF POSTER PROGRAMME LF1

LF2 Planetary field analogues: natural sites for study life limits and space missions instrumental testing

Convener: Gomez, F.
Co-Convener(s): Mason, N., Dutuit, O.
Room: S9
Chairperson: N.N.

11:00–11:15; EPSC2008-A-00388
Parnell, J.; Bowden, S.; Lindgren, P.; Wilson, R.; Cooper, J.
Targeting organic molecules in hydrothermal environments on Mars

11:15–11:30; EPSC2008-A-00389
Ori, G.G.; Flamini, E.; Dell'Arciprete, I.; Taj-Edine, K.
The Ibn Battuta Centre: a facility to test operations, instruments and landing systems for Mars and Moon exploration (Marrakech, Morocco)

11:30–12:00; EPSC2008-A-00511
AMILS, R.; Fernández-Remolar, D.; Gómez, F.; González-Toril, E.; Rodríguez, N.; Prieto-Ballesteros, O.; Sanz, J.L.; Díaz, E.; Stoker, C.
Subsurface geomicrobiology in a Mars terrestrial anlogue, Río Tinto (SW, Spain) (solicited)

12:00–12:15; EPSC2008-A-00530
Fleischer, I.; **Klingelhöfer, G.**; Rull, F.; Blumers, M.; Rodionov, D.; Schröder, C.; Sansano, A.; Medina, J.; Schmanke, D.; Maul, J.
Sulfate Minerals from two Mars Analogue Sites Rio Tinto and Jaroso Ravine, Spain, investigated by Mössbauer and Raman Spectroscopy

12:15–12:30; EPSC2008-A-00449
Head III, J. W.; Marchant, D. R.; Dickson, J. L.; Levy, J. S.; Morgan, G. A.
Antarctic Dry Valley analogs for Mars gullies: Geological setting and processes

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12:30 END OF ORAL PROGRAMME LF2

LF2 Planetary field analogues: natural sites for study life limits and space missions instrumental testing – Posters

Convener: Gomez, F.
Co-Convener(s): Mason, N., Dutuit, O.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0089; EPSC2008-A-00145
Hargitai, H.
Collaborative online knowledge base for human planetary mission simulation stations

P0090; EPSC2008-A-00490
Valdivia-Silva, J.E.; Navarro-González, R.; McKay, C.P.
Thermal volatilization (TV) of different hyperarid Mars like-soils from the Atacama Desert: Implications for the analysis of the Phoenix Mission

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END OF POSTER PROGRAMME LF2

LF3 Planetary field analogues, Laboratory Simulation Facilities and Sample Ananlysis Facilities

Convener: Mason, N.
Co-Convener(s): Dutuit, O., Gomez, F.
Room: S9
Chairperson: N.N.

14:00–14:30; EPSC2008-A-00356
Gómez, F.; Rodriguez-Manfredi, J.A.; Prieto-Ballesteros, O.; Hamran, S. E.; Orozovich, Y.; Korablev, O.; Ori, G.; Marinangeli, L.
Europlanet Research Infrastructure: Planetary Field Analogues (solicited)

14:30–15:00; EPSC2008-A-00252
Davies, G.R.; Mason, N. J.; Green, S.; F. Gómez, F.; Prieto, O.; Helbert, J.; Colangeli, L.; Srama, R.; Grande, M.; Merrison, J.
Europlanet research infrastructure: Planetary simulation facilities (solicited)

15:00–15:30; EPSC2008-A-00437
Cloquet, C.; Mason, N.J.; Davies, G.R.; Marty, B.
Europlanet Research Infrastructure: Planetary Sample Analysis Facilities (solicited)

15:30 END OF ORAL PROGRAMME LF3

LF3 Planetary field analogues, Laboratory Simulation Facilities and Sample Ananlysis Facilities – Posters

Convener: Mason, N.
Co-Convener(s): Dutuit, O., Gomez, F.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0091; EPSC2008-A-00503
Gazeau, M.-C.; Es-Sebbar, ET.; Arzoumanian, E.; Perrier, S.; Bénilan, Y.
S.E.T.U.P. "Experimental and Theoretical Simulations Useful for Planetology" related studies on molecular nitrogen dissociation by cold plasma

P0092; EPSC2008-A-00430
Benilan, Y.; Arzoumanian, E.; Es-Sebbar, Et.; Ferradaz, T.; Fray, N.; Jolly, A.; Gazeau, M.-C.; Schwell, M.
IR and UV spectroscopic studies at low temperature: C2N2

P0093; EPSC2008-A-00473
Marty, B.; Zimmermann, L.; Burnard, P.
Analysis of extraterrestrial matter returned by spacecrafts : Apollo, Luna, Genesis and Stardust

P0094; EPSC2008-A-00007
Loureiro, J.; Pintassilgo, C. D.
Production of N-containing hydrocarbon species in an afterglow plasma for simulation of Titan's atmosphere

P0095; EPSC2008-A-00550
Barnes, D.; Grande, M.; Tyler, L.; Cook, T.
The Europlanet RI TransNational Access Planetary Analogue Terrain Laboratory (PATLab)

P0096; EPSC2008-A-00462
Blecka, M. I.; Gurgurewicz, J.; Helbert, J.; Maturilli, A.
Modelling the influence of the emittance of weathered basaltic materials on radiance spectra - related to observations of Valles Marineris region on Mars

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END OF POSTER PROGRAMME LF3

LF4 Experimental laboratory measurements on planetary materials

Convener: Esposito, F.
Co-Convener(s): Castillo, J., Fonti, S.
Room: S9
Chairperson: FONTI, S.

15:45–16:00; EPSC2008-A-00412
Gurgurewicz, J.; Maturilli, A.; Helbert, J.
Infrared spectrometric data of basaltic Martian analogues from Mongolian terranes and the Baikal Rift Zone

16:00–16:15; EPSC2008-A-00358
Maturilli, A.; Helbert, J.
The Berlin Emissivity Database (BED): a spectral library in support of planetary missions

16:15–16:30; EPSC2008-A-00428
Rout, S. S.; Moroz, L. V.; Baither, D.; van der Bogert, C. H.; Bischoff, A.
Laboratory simulations of space weathering and impact heating of planetary surfaces: the TEM studies

16:30–16:45; EPSC2008-A-00338
Gundlach, B.; Skorov, Y.; Blum, J.
Experimental study and theoretical modelling of the energy deposition into the porous dust-ice samples

16:45–17:00; EPSC2008-A-00144
Krause, C.; Sperl, M.
Acoustic Measurements in Granular Material made of Photo Elastic Gels

17:00–17:15; EPSC2008-A-00484
von Borstel, I.; Blum, J.
Photophoresis: Applications in Astrophysics

17:15 END OF ORAL PROGRAMME LF4

LF4 Experimental laboratory measurements on planetary materials – Posters

Convener: Esposito, F.
Co-Convener(s): Castillo, J., Fonti, S.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: FONTI, S.

P0097; EPSC2008-A-00357
Helbert, J.; Maturilli, A.
The heat is on – in the Planetary Emissivity Laboratory (PEL) at DLR Berlin

P0098; EPSC2008-A-00088
Dupire, C.; Grasset, O.; Le Mouélic, S.; Le Menn, E.
In situ infrared spectroscopy of H2O-CO2 mixtures in a HP-LT cell: planetological applications

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END OF POSTER PROGRAMME LF4

Outreach and Amateur Astronomy

OA2 Public Outreach – Posters

Convener: Koehler, U.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: N.N.

P0099; EPSC2008-A-00295
Hegyi, S.; **Bérczi, Sz.**; Hudoba, Gy.; Magyar, I.; Lang, A.; Istenes, Z.; Weidinger, T.; Tepliczky, I.; Varga, T.; Hargitai, H.
New developments at Hunveyor and Husar space probe model constructions in Hungarian Universities and Colleges: status report of 2008

P0100; EPSC2008-A-00410
Toyota, T.; Kasahara, S.; Narita, N.; Murayama, M.; Homma, N.; Kaburagi, Y.; Yokoyama, H.
Interdisciplinary collaboration for outreach by young scientists in a Japanese university

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END OF POSTER PROGRAMME OA2
(oral programme on Wednesday)

OA3 Observing the Solar System: Contributions from Amateur Astronomy to Planetary Research – Posters

Convener: Hüttemeister, S.
Co-Convener(s): Kowollik, S., Sohl, F.
Display Time: Wednesday, 14:00–Friday, 19:00
Authors in Attendance: Thursday, 17:30–19:00
Poster Area: Tent
Chairperson: KOWOLLIK, S.

P0101; EPSC2008-A-00191
Kowollik, S.; Gaehken, B.; Fiedler, M.; Gerstheimer, R.; Sohl, F.; Koschny, D.
Telescopes and recording systems used by amateurs for studying planets in our solar system - an overview

P0102; EPSC2008-A-00586
Gährken, B.
Changes on the martian surface during the oppositions 2003, 2005 and 2007

END OF POSTER PROGRAMME OA3
(oral programme on Wednesday)

SESSION PROGRAMME

FRIDAY

Missions and Techniques

MT1 Lunar Exploration

Convener: Foing, B.
Co-Convener(s): Oberst, J.
Room: Aula
Chairperson: N.N.

14:00–14:15; EPSC2008-A-00205
Grieger, B.; Beauvivre, S.; Despan, D.; Erard, S.; Josset, J.-L.; Koschny, D.
Investigating a peak of (almost) eternal light close to the lunar south pole with SMART-1/AMIE images

14:15–14:30; EPSC2008-A-00380
Vilenius, E.; Wiese, M.; Mall, U.
Parameters of a semiempirical photometric function in near-infrared for the photometric corrections of SMART-1 / SIR lunar data

14:30–14:45; EPSC2008-A-00168
Kirk, R.L.; Archinal, B.A.; Gaddis, L.R.; Rosiek, M.R.
Cartography for lunar exploration: 2008 status, mission plans, and processing requirements

14:45–15:00; EPSC2008-A-00323
Oberst, J.; Schreiber, U.; Flechtner, F.; Galas, R.; Pätzold, M.; Riepl, S.; Schäfer, W.; Sohl, F.; Spohn, T.
Range Measurements at Centimeter Level Using Lasers and Optical Receivers to Spacecraft in Lunar Orbit and Beyond

15:00–15:15; EPSC2008-A-00528
Grande, M; Maddison, B J; Sreekumar, P; Huovelin, J; Kellett, B J; Crawford, I A; Smith, D R; The C1XS Team
The C1XS X-Ray Spectrometer On Chandrayaan-1

15:15–15:30; EPSC2008-A-00393
Carpenter, J.D.; Koschny, D.; Crawford, I.; Falcke, H.; Kempf, S.; Lognonne, P.; Ricci, C.; Houdou, B.; Pradier, A.
Exploration of the Lunar South Pole With MoonNEXT

15:30 Coffee Break

Chairperson: N.N.

15:45–16:00; EPSC2008-A-00091
Reissaus, P.
Payloads for future Lunar Lander Missions

16:00–16:15; EPSC2008-A-00538
Morgan, T.; Cohen, B.; Veverka, J.; ILN team, US
THE INTERNATIONAL LUNAR NETWORK ANCHOR NODES MISSION – A U. S. Contribution to the International Lunar Network

16:15–16:30; EPSC2008-A-00381
Kempf, S.; The LEOPARD team
The LEO dust camera LEOPARD

16:30–16:45; EPSC2008-A-00169
Houtkooper, J.M.; Schulze-Makuch, D.
Exploring lunar ices for past dynamical activity of the Moon and biosignatures from life on Earth

16:45–17:00; EPSC2008-A-00023
Multhaup, K.
The moon as a stepping stone for a spacefaring civilization

17:00 END OF ORAL PROGRAMME MT1
(poster programme on Thursday)

MT8 Planetary Robotics

Convener: Barnes, D.
Room: S1
Chairperson: BARNES, D.

11:00–11:15; EPSC2008-A-00396
Zegers, T.E.; Mulder, J.A.; Remes, B.; Berkouwer, W.; Peeters, B.; Lentink, D.; Passchier, C.
ExoFly: a flapping wing aerobot for planetary survey and exploration

11:15–11:30; EPSC2008-A-00188
Willner, K.; Oberst, J.; Scholten, F.; Jaumann, R.
Images from Mars Pathfinder - Data Processing Techniques Revisited

11:30–11:45; EPSC2008-A-00128
Havlena, M.; Torii, A.; **Pajdla, T.**
Camera Trajectory from Wide Baseline Images

11:45–12:00; EPSC2008-A-00531
Tyler, L; Barnes, D
An instrument deployment arm study for the ExoMars rover vehicle

12:00–12:15; EPSC2008-A-00207
Ekonomov, A.
How and why to survive at Venus surface.

12:15 END OF ORAL PROGRAMME MT8
(poster programme on Thursday)

Terrestrial Planets

TP3 Current Science from the Moon

Convener: Hiesinger, H.
Co-Convener(s): Pieters, C.
Room: Aula
Chairperson: JOLLIFF, B.

9:00–9:15; EPSC2008-A-00315
Pieters, C.; Hiesinger, H.; Head, J.
Lunar science from and for planet Earth

9:15–9:45; EPSC2008-A-00174
Kato, M.; Sasaki, S.; Takizawa, Y.
Kaguya (SELENE) mission: present status and its science (solicited)

9:45–10:00; EPSC2008-A-00229
Forni, O.; Diez, B.; Gasnault, O.; Munoz, B.; d'Uston, C.; Reedy, R. C.; Hasebe, N.; the SELENE GRS team
Preliminary observations of the SELENE Gamma Ray Spectrometer

10:00–10:15; EPSC2008-A-00532
Grande, M.; Swinyard, B.; Joy, K.; Kellett, B.J.; Crawford, I.A.; Howe, C.J.; The D-CIXS Team
X-ray Fluorescence Observations of the Moon by SMART-1/D-CIXS

10:15–10:30; EPSC2008-A-00582
Berezhnoy, A.
The chemistry of meteoroid bombardment of the Moon

10:30 Coffee Break

Chairperson: HIESINGER, H.

11:00–11:30; EPSC2008-A-00498
Jolliff, B.
Lunar Mineralogy and Global Distribution on the Moon's Surface (solicited)

11:30–11:45; EPSC2008-A-00129
Borst, A.M.; Bexkens, F.; Foing, B.H.; Koschny, D.; Peters, S.T.M
Geochemical analysis of units within the South Pole – Aitken Basin

11:45–12:00; EPSC2008-A-00467
Wilson, L.; Head III, J. W.
Lunar volcanic eruptions: Mare lava flow eruption rates and implications for mantle melt volumes and dike geometries

12:00–12:15; EPSC2008-A-00600
Ghent, R.R.; Campbell, B.A.; Pithawala, T.
HighlycomminutedlunarimpactejectaLRODIVINERobservations

12:15–12:30; EPSC2008-A-00257
Wiese, M.; Mall, U.; Vilenius, E.
Hapke modeling of lunar infrared spectra using SIR-1 and Clementine UVVIS/NIR data

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12:30 END OF ORAL PROGRAMME TP3
hspace*8mm (poster programme on Thursday)

TP8 Titan, an Earthlike Moon?

Convener: Schmitz, N.
Co-Convener(s): André, N.
Room: S1
Chairperson: ANDRE, N.

14:00–14:15; EPSC2008-A-00554
Sittler, E.; Hartle, R.; Lipatov, A.; Bertucci, C.; Coates, A.; Szego, K.; Shappirio, M.; Simpson, D.; Young, D.
Composition of upstream flow for Titan's interaction with Saturn's magnetosphere during T9 flyby

14:15–14:30; EPSC2008-A-00557
Sittler, E.; Hartle, R.; Lipatov, A.; Bertucci, C.; Coates, A.; Szego, K.; Shappirio, M.; Simpson, D.; Wahlund, J.
Saturn's magnetospheric interaction with Titan as defined by Cassini encounter T9: new results

14:30–14:45; EPSC2008-A-00165
Van Hoolst, T.; Karatekin, O.
The influence of internal gravitational coupling and ice viscosity on Titan's length-of-day variations

14:45–15:00; EPSC2008-A-00325
Tobie, G.; Gautier, D.; Hersant, F.; Lunine, J. I.
Interpretation of Titan's atmospheric composition measured by Cassini-Huygens

15:00–15:15; EPSC2008-A-00491
Sittler, E.; Hartle, R.; Cooper, J.; Johnson, R.; Coates, A.
Heavy Ion Formation in Titan's Ionosphere, Magnetospheric Introduction of Free Oxygen and Source of Titan's Aerosols?

15:15–15:30; EPSC2008-A-00300
Le Corre, L.; Le Mouélic, S.; Sotin, C.; Barnes, J. W.; Brown, R. H.; Baines, K.; Buratti, B.; Clark, R.; Nicholson, P.
Global map of Titan's dune fields

15:30 END OF ORAL PROGRAMME TP8
(poster programme on Thursday)

Small Bodies and Planetary Moons

SB2 Meteoroids and Dust in the Earth-Moon System

Convener: Kempf, S.
Co-Convener(s): Oberst, J.
Room: S1
Chairperson: KEMPF, S.

9:00–9:15; EPSC2008-A-00352
Auer, S.; **Berg, O.E.**
Levitated lunar surface dust as evidenced by the LEAM experiment

9:15–9:30; EPSC2008-A-00387
Kempf, S.; Beckmann, U.
The properties of the Lunar ejecta cloud

9:30–9:45; EPSC2008-A-00527
Cook, A.C.; Grande, M.
Observational Techniques for Detecting Lunar Impacts

9:45–10:00; EPSC2008-A-00558
Srama, R.; Postberg, F.; Kempf, S.; Hillier, J.
Time-of-flight spectroscopy of hypervelocity impacts using micron-sized glass particles

10:00–10:15; EPSC2008-A-00603
Dikarev, V.; Drolshagen, G.; Landgraf, M.; Krag, H.; Kuiper, W.; Grün, E.
Interplanetary Meteoroids Near Earth and Moon

10:15 END OF ORAL PROGRAMME SB2
(poster programme on Thursday)

SB7 Comparative science of planetary Moons

Convener: Hussmann, H.
Room: S1
Chairperson: N.N.

15:45–16:00; EPSC2008-A-00184
Denk, T.; Neukum, G.; Schmedemann, N.; Roatsch, Th.; Thomas, P.C.; Helfenstein, P.; Turtle, E.P.; Porco, C.C.
Iapetus: Major discoveries from the Cassini imaging experiment

16:00–16:15; EPSC2008-A-00269
Schmedemann, N.; Neukum, G.; Denk, T.; Michael, G.; Wagner, R.
Improvement of the Crater Size-Frequency Distributon and Results on Surface Ages of the Saturnian Satellites

16:15–16:30; EPSC2008-A-00494
Wagner, R. J.; Neukum, G.
Geologic processes on the Galilean satellite Callisto: Galileo SSI results, open questions, and requirements for camera data in a future mission to Jupiter

16:30–16:45; EPSC2008-A-00342
Tobie, G.; Besserer, J.; Cadek, O.; Choblet, G.; Sotin, C.
Liquid water and resurfacing of Enceladus' south polar terrain

16:45–17:00; EPSC2008-A-00591
Kimura, J.; **Kurita, K.**
Comparative thermal history of satellites for magnetic field generation

17:00–17:15; EPSC2008-A-00592
Vance, S.; Hussmann, H.
Tidal Evolution and Hydrothermal Activity in Icy Worlds

17:15 END OF ORAL PROGRAMME SB7
(poster programme on Thursday)

Origins

ON1 Early Evolution and Differentiation of terrestrial Planets

Convener: Quitte, G.
Co-Convener(s): Ziethe, R.
Room: S8
Chairperson: N.N.

14:00–14:30; EPSC2008-A-00136
Vogel, N.; Renne, P.R.
Formation and early evolution of the IAB iron parent body (solicited)

14:30–14:45; EPSC2008-A-00268
Ziethe, R.; Quitté, G.
Physical and cosmochemical time constraints on planetary differentiation

14:45–15:00; EPSC2008-A-00087
Golabek, G.J.; Gerya, T.V.; Tackley, P.J.
Rheological controls on the terrestrial core formation mechanism

15:00–15:15; EPSC2008-A-00253
Arndt, N; Coltice, N; Helmsteadt, H; Gregoire, M
Origin of Archean Subcontinental Lithospheric Mantle: Some Petrological Constraints

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15:15 END OF ORAL PROGRAMME ON1
(poster programme on Thursday)

ON2 Planet Formation and the Origin of the Solar System

Convener: Ziethe, R.
Co-Convener(s): Quitte, G., Wuchterl, G.
Room: S8
Chairperson: N.N.

15:45–16:00; EPSC2008-A-00568
Quitté, G.
Isotopic constraints on the environment of the nascent Sun and the earliest stages of the solar nebula

16:00–16:15; EPSC2008-A-00330
Hayfield, T.; Mayer, L.
Protoplanetary disc properties in isolated and binary systems

16:15–16:30; EPSC2008-A-00076
Teiser, J.; Wurm, G.
High velocity collisions – probing the edge of planetesimal growth

16:30–16:45; EPSC2008-A-00336
Broeg, C.; Wuchterl, G.
Maximum embedded equilibrium masses for giant planets

16:45–17:00; EPSC2008-A-00270
Morishima, R.; Schmidt, M. W.; Stadel, J.; Moore, B.
High Resolution Simulations for Formation of the Inner Solar System with the Effects of Gas

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17:00 END OF ORAL PROGRAMME ON2
(poster programme on Thursday)

ON6 Origin of life and life under extreme conditions

Convener: Stan-Lotter, H.
Co-Convener(s): Bérces, A., Horneck, G.
Room: S8
Chairperson: N.N.

9:00–9:15; EPSC2008-A-00070
Kompanichenko, V.
Process of the origin of life on a planet: the universal succession

9:15–9:30; EPSC2008-A-00576
Seckbach, J.; Oren, A.; Chela-Flores, J.
The extreme environments and their microbes as models for extraterrestrial life.

9:30–9:45; EPSC2008-A-00575
Rettberg, P.; Ellis-Evans, C.; Prieur, D.; Loreto, F.; Walter, N.; Le Bris, N.; Elster, J.; Amils, R.; Marteinsson, V.
European Research on life in extreme environments, setting up research priorities and coordinating the community: the CAREX project

9:45–10:00; EPSC2008-A-00280
Stan-Lotter, H.; Fendrihan, S.; Gerbl, F.W.; Dornmayr-Pfaffenhuemer, M.; Frethem, C.
Extremely halophilic archaea from ancient salt sediments and their possible survival in halite fluid inclusions

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10:00 END OF ORAL PROGRAMME ON6
(poster programme on Thursday)

ON8 Astrobiology of Subsurface Oceans and Titan lakes

Convener: Prieto-Ballesteros, O.
Co-Convener(s): Raulin, F.
Room: S8
Chairperson: RAULIN, F./PRIETO-BALLESTEROS, O.

11:00–11:15; EPSC2008-A-00353
Prieto-Ballesteros, O; Rodríguez-Manfredi, J.A.; Gómez, F.; Segura, A.; G. Baonza, V.
Laboratory experiments on the chemical evolution and astrobiology of deep aqueous reservoirs of the icy satellites

11:15–11:45; EPSC2008-A-00246
Brown, R; Soderblom, L; Soderblom, J; Clark, R; Jaumann, R; Barnes, J; Sotin, C; Buratti, B; Baines, K; Nicholson, P
Identification of Liquid Ethane in Titan's Ontario Lacus (solicited)

11:45–12:00; EPSC2008-A-00014
Tokano, T.
Limnological structure of Titan's hydrocarbon lakes and its astrobiological implication

12:00–12:15; EPSC2008-A-00256
Raulin, F.
Astrobiology in Titan's lakes

12:15 END OF ORAL PROGRAMME ON8
(poster programme on Thursday)

TEAM INDEX

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A. V. B. Hansen; et al.

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